Product Information

Common features of Crastin® thermoplastic polyester resin include mechanical and physical properties such as stiffness and toughness, heat resistance, friction and wear resistance, excellent surface finishes and good colourability. Crastin® thermoplastic polyester resin has excellent electrical insulation characteristics and high arc-resistant grades are available. Many flame retardant grades have UL recognition (class V-0). Crastin® thermoplastic polyester resin typically has high chemical and heat ageing resistance.

The good melt stability of Crastin® thermoplastic polyester resin normally enables the recycling of properly handled production waste.

If recycling is not possible, DuPont recommends, as the preferred option, incineration with energy recovery (-24 kJ/g of base polymer) in appropriately equipped installations. For disposal, local regulations have to be observed.

Crastin® thermoplastic polyester resin typically is used in demanding applications in the electronics, electrical, automotive, mechanical engineering, chemical, domestic appliances and sporting goods industry.

Crastin® S600F20 BK851 is an unreinforced, lubricated, medium viscosity polybutylene terephthalate resin for injection moulding.

Resin Identification PBT - ISO 1043 Part Marking Code PBT - ISO 11469 Rheological properties Value Unit Test Standard Melt mass-flow rate 18 g/10min ISO 1133 Melt mass-flow rate, Load 2.16 kg ISO 1133 Moulding shrinkage, parallel 1.7 % ISO 294-4, 2577 Moulding shrinkage, normal 1.6 % ISO 294-4, 2577 Mechanical properties Value Unit Test Standard Tensile Modulus 2500 MPa ISO 527-1/-2 Yield stress 58 MPa ISO 527-1/-2 Yield strain at break 40 % ISO 527-1/-2 Nominal strain at break 40 % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min >50 % ISO 527-1/-2 Poisson's ratio 0.38 - ISO 527-1/-2 Charpy notched impact strength, 23°C 5 kJ/m² ISO 179/1eA Izod notched impact strength, 23°C 4 kJ	General information	Value	Unit	Test Standard
Rheological properties Value Unit Test Standard Melt mass-flow rate 18 g/10min ISO 1133 Melt mass-flow rate, Temperature 250 °C ISO 1133 Melt mass-flow rate, Load 2.16 kg ISO 1133 Moulding shrinkage, parallel 1.7 % ISO 294-4, 2577 Moulding shrinkage, normal 1.6 % ISO 294-4, 2577 Mechanical properties Value Unit Test Standard Tensile Modulus 2500 MPa ISO 527-1/-2 Yield stress 58 MPa ISO 527-1/-2 Yield strain 5 % ISO 527-1/-2 Nominal strain at break 40 % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min 50 % ISO 527-1/-2 Poisson's ratio 0.38 - ISO 527-1/-2 Charpy notched impact strength, 23°C 5 kJ/m² ISO 179/1eA Izod notched impact strength, 23°C 4 kJ/m² ISO 180/1A Thermal properties Value Unit Test Standard Melting temperature, 10°C/min 224 °C ISO 11357-1/-3 Temp. of deflection	Resin Identification	PBT	-	ISO 1043
Melt mass-flow rate 18 g/10min ISO 1133 Melt mass-flow rate, Temperature 250 °C ISO 1133 Melt mass-flow rate, Load 2.16 kg ISO 1133 Moulding shrinkage, parallel 1.7 % ISO 294-4, 2577 Moulding shrinkage, normal 1.6 % ISO 294-4, 2577 Mechanical properties Value Unit Test Standard Tensile Modulus 2500 MPa ISO 527-1/-2 Yield stress 58 MPa ISO 527-1/-2 Yield strain 5 % ISO 527-1/-2 Yield strain at break 40 % ISO 527-1/-2 Nominal strain at break 40 % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min >50 % ISO 527-1/-2 Poisson's ratio 0.38 - ISO 527-1/-2 Charpy notched impact strength, 23°C 5 kJ/m² ISO 179/1eA Izod notched impact strength, 23°C 4 kJ/m² ISO 180/1A Thermal properties Value Unit Test Standard Melting temperature, 10°C/min 224 °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2<	Part Marking Code	PBT	-	ISO 11469
Melt mass-flow rate, Temperature 250 °C ISO 1133 Melt mass-flow rate, Load 2.16 kg ISO 1133 Moulding shrinkage, parallel 1.7 % ISO 294-4, 2577 Moulding shrinkage, normal 1.6 % ISO 294-4, 2577 Mechanical properties Value Unit Test Standard Tensile Modulus 2500 MPa ISO 527-17-2 Yield stress 58 MPa ISO 527-17-2 Yield strain 5 % ISO 527-17-2 Nominal strain at break 40 % ISO 527-17-2 Strain at Break, 23°C, 50mm/min >50 % ISO 527-17-2 Poisson's ratio 0.38 - ISO 527-17-2 Charpy notched impact strength, 23°C 5 kJ/m² ISO 179/1eA Izod notched impact strength, 23°C 5 kJ/m² ISO 180/1A Thermal properties Value Unit Test Standard Melting temperature, 10°C/min 224 °C ISO 11357-17-3 Temp. of deflection under load ISO 75-17-2 1.8 MPa 140 °C 0.45 MPa, annealed 180 °C 1.8 MPa, annealed 60 °C	Rheological properties	Value	Unit	Test Standard
Melt mass-flow rate, Load 2.16 kg ISO 1133 Moulding shrinkage, parallel 1.7 % ISO 294-4, 2577 Moulding shrinkage, normal 1.6 % ISO 294-4, 2577 Mechanical properties Value Unit Test Standard Tensile Modulus 2500 MPa ISO 527-1/-2 Yield stress 58 MPa ISO 527-1/-2 Yield strain 5 % ISO 527-1/-2 Nominal strain at break 40 % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min >50 % ISO 527-1/-2 Poisson's ratio 0.38 - ISO 527-1/-2 Charpy notched impact strength, 23°C 5 kJ/m² ISO 179/1eA Izod notched impact strength, 23°C 4 kJ/m² ISO 179/1eA Izod notched impact strength, 23°C 4 kJ/m² ISO 180/1A Thermal properties Value Unit Test Standard Melting temperature, 10°C/min 224 °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 1.8 MPa 50 °C 10.45 MPa, annealed 0.45 MPa, annealed 60 °C	Melt mass-flow rate	18	g/10min	ISO 1133
Moulding shrinkage, parallel 1.7 % ISO 294-4, 2577 Moulding shrinkage, normal 1.6 % ISO 294-4, 2577 Mechanical properties Value Unit Test Standard Tensile Modulus 2500 MPa ISO 527-1/-2 Yield stress 58 MPa ISO 527-1/-2 Yield strain 5 % ISO 527-1/-2 Yield strain at break 40 % ISO 527-1/-2 Nominal strain at break 40 % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min >50 % ISO 527-1/-2 Poisson's ratio 0.38 - ISO 527-1/-2 Charpy notched impact strength, 23°C 5 kJ/m² ISO 179/1eA Izod notched impact strength, 23°C 4 kJ/m² ISO 180/1A Thermal properties Value Unit Test Standard Melting temperature, 10°C/min 224 °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 1.8 MPa 50 °C C 0.45 MPa 140 °C C 0.45 MPa, annealed 180 °C C 1.8 MPa, annealed 60 °C	Melt mass-flow rate, Temperature	250	°C	ISO 1133
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Mechanical properties Value Unit Test Standard Tensile Modulus 2500 MPa ISO 527-1/-2 Yield stress 58 MPa ISO 527-1/-2 Yield strain 5 % ISO 527-1/-2 Nominal strain at break 40 % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min >50 % ISO 527-1/-2 Poisson's ratio 0.38 - ISO 527-1/-2 Charpy notched impact strength, 23°C 5 kJ/m² ISO 179/1eA Izod notched impact strength, 23°C 4 kJ/m² ISO 180/1A Thermal properties Value Unit Test Standard Melting temperature, 10°C/min 224 °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 1.8 MPa 50 °C 0.45 MPa, annealed 140 °C 0.45 MPa, annealed 180 °C 1.8 MPa, annealed 60 °C	Moulding shrinkage, parallel	1.7		ISO 294-4, 2577
Tensile Modulus 2500 MPa ISO 527-1/-2 Yield stress 58 MPa ISO 527-1/-2 Yield strain 5 % ISO 527-1/-2 Nominal strain at break 40 % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min >50 % ISO 527-1/-2 Poisson's ratio 0.38 - ISO 527-1/-2 Charpy notched impact strength, 23°C 5 kJ/m² ISO 179/1eA Izod notched impact strength, 23°C 4 kJ/m² ISO 180/1A Thermal properties Value Unit Test Standard Melting temperature, 10°C/min 224 °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 1.8 MPa 50 °C 0.45 MPa, annealed 140 °C 1.8 MPa, annealed 180 °C 1.8 MPa, annealed 60 °C	Moulding shrinkage, normal	1.6		ISO 294-4, 2577
Yield stress 58 MPa ISO 527-1/-2 Yield strain 5 % ISO 527-1/-2 Nominal strain at break 40 % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min >50 % ISO 527-1/-2 Poisson's ratio 0.38 - ISO 527-1/-2 Charpy notched impact strength, 23°C 5 kJ/m² ISO 179/1eA Izod notched impact strength, 23°C 4 kJ/m² ISO 180/1A Thermal properties Value Unit Test Standard Melting temperature, 10°C/min 224 °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 1.8 MPa 50 °C 0.45 MPa 140 °C 0.45 MPa, annealed 180 °C 1.8 MPa, annealed 60 °C	Mechanical properties	Value	Unit	Test Standard
Yield strain 5 % ISO 527-1/-2 Nominal strain at break 40 % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min >50 % ISO 527-1/-2 Poisson's ratio 0.38 - ISO 527-1/-2 Charpy notched impact strength, 23°C 5 kJ/m² ISO 179/1eA Izod notched impact strength, 23°C 4 kJ/m² ISO 180/1A Thermal properties Value Unit Test Standard Melting temperature, 10°C/min 224 °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 1.8 MPa 50 °C 0.45 MPa 140 °C 0.45 MPa, annealed 180 °C 1.8 MPa, annealed 60 °C	Tensile Modulus	2500	MPa	ISO 527-1/-2
Nominal strain at break 40 % ISO 527-1/-2 Strain at Break, 23°C, 50mm/min >50 % ISO 527-1/-2 Poisson's ratio 0.38 - ISO 527-1/-2 Charpy notched impact strength, 23°C 5 kJ/m² ISO 179/1eA Izod notched impact strength, 23°C 4 kJ/m² ISO 180/1A Thermal properties Value Unit Test Standard Melting temperature, 10°C/min 224 °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 1.8 MPa 50 °C 0.45 MPa, annealed 140 °C 1.8 MPa, annealed 60 °C	Yield stress	58	MPa	ISO 527-1/-2
Strain at Break, 23°C, 50mm/min >50 % ISO 527-1/-2 Poisson's ratio 0.38 - ISO 527-1/-2 Charpy notched impact strength, 23°C 5 kJ/m² ISO 179/1eA Izod notched impact strength, 23°C 4 kJ/m² ISO 180/1A Thermal properties Value Unit Test Standard Melting temperature, 10°C/min 224 °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 1.8 MPa 50 °C 0.45 MPa 140 °C 0.45 MPa, annealed 180 °C 1.8 MPa, annealed 60 °C	Yield strain	5		ISO 527-1/-2
Poisson's ratio Charpy notched impact strength, 23°C Izod notched impact strength, 23°C Izod notched impact strength, 23°C Izod notched impact strength, 23°C A kJ/m² ISO 179/1eA ISO 180/1A Thermal properties Value Unit Test Standard Melting temperature, 10°C/min 224 °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 1.8 MPa 50 °C 0.45 MPa 140 °C 0.45 MPa, annealed 180 °C 1.8 MPa, annealed 60 °C	Nominal strain at break			ISO 527-1/-2
Charpy notched impact strength, 23°C Izod 180/1A Thermal properties Value Unit Test Standard Izod 11357-1/-3 Iso 75-1/-2 Isod MPa Isod C Isod MPa			%	ISO 527-1/-2
Izod notched impact strength, 23°C4 kJ/m²ISO 180/1AThermal propertiesValueUnitTest StandardMelting temperature, 10°C/min224 °CISO 11357-1/-3Temp. of deflection under loadISO 75-1/-21.8 MPa50 °C0.45 MPa140 °C0.45 MPa, annealed180 °C1.8 MPa, annealed60 °C	Poisson's ratio	0.38	-	ISO 527-1/-2
Thermal properties Value Unit Test Standard Melting temperature, 10°C/min 224 °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 1.8 MPa 50 °C 0.45 MPa 140 °C 0.45 MPa, annealed 180 °C 1.8 MPa, annealed 60 °C	Charpy notched impact strength, 23°C	5		
Melting temperature, 10°C/min 224 °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 1.8 MPa 50 °C 0.45 MPa 140 °C 0.45 MPa, annealed 180 °C 1.8 MPa, annealed 60 °C				
Temp. of deflection under load 1.8 MPa 1.8 MPa 50 °C 0.45 MPa 140 °C 0.45 MPa, annealed 180 °C 1.8 MPa, annealed 60 °C				
1.8 MPa 50 °C 0.45 MPa 140 °C 0.45 MPa, annealed 180 °C 1.8 MPa, annealed 60 °C		224	°C	
0.45 MPa 140 °C 0.45 MPa, annealed 180 °C 1.8 MPa, annealed 60 °C				ISO 75-1/-2
0.45 MPa, annealed 180 $^{\circ}$ C 1.8 MPa, annealed 60 $^{\circ}$ C			-	
1.8 MPa, annealed 60 °C				
			-	
	· · · · · · · · · · · · · · · · · · ·	60	°C	
,	RTI, electrical			UL 746B
0.75mm 130 °C			-	
1.5mm 130 °C			-	
3mm 130 °C	3mm			
6mm 130 °C		130	°C	
RTI, impact UL 746B	, ·			UL 746B
0.75mm 115 °C	***************************************		-	
1.5mm 115 °C			-	
3 mm 115 $^{\circ}$ C				
6mm 115 °C	6mm	115	°C	

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RTI, strength			UL 746B	
0.75mm	120	°C		
1.5mm	120	°C		
3mm	120	°Č		
6mm	120	°Č		
Flammability	Value		Test Standard	
Burning Behav. at 1.5mm nom. thickn.	НВ	class	IEC 60695-11-10	
Thickness tested	1.5	mm	IEC 60695-11-10	
UL recognition	UL	-	UL 94	
Burning Behav. at thickness h		class	IEC 60695-11-10	
Thickness tested	3	mm	IEC 60695-11-10	
UL recognition	UL	-	UL 94	
Glow Wire Flammability Index, 3mm	750	°C	IEC 60695-2-12	
Glow Wire Ignition Temperature, 3mm	725	°C	IEC 60695-2-13	
FMVSS Class	B	-	ISO 3795 (FMVSS 302)	
Burning rate, Thickness 1 mm		mm/min	ISO 3795 (FMVSS 302)	
Electrical properties	Value		Test Standard	
Relative permittivity	value	Offic	IEC 62631-2-1	
100Hz	3.5	_	120 02031 2 1	
1MHz	3.3	_		
Dissipation factor	3.3		IEC 62631-2-1	
100Hz	1	E-4	126 02031 2 1	
1MHz		E-4		
Volume resistivity	>1E13		IEC 62631-3-1	
Surface resistivity	1E14		IEC 62631-3-1	
Electric strength		kV/mm	IEC 60243-1	
Comparative tracking index	400	-	IEC 60112	
Other properties	Value		Test Standard	
Density	1310		ISO 1183	
VDA Properties	Value		Test Standard	
Emission of organic compounds	290		VDA 277	
Thermal desorption analysis of organic emissions	1	μg/g	VDA 277	
Odour	3	class	VDA 278	DS
Fogging, G-value (condensate)	0	mg	ISO 6452	DS
DS: Derived from similar grade	U	iiig	130 0432	υs
Injection	Value	Hoit	Test Standard	
Drying Recommended			-	
Drying Temperature	yes ≥120	°C		
Drying Time, Dehumidified Dryer	2 - 4			
Processing Moisture Content	≤0.04			
Melt Temperature Optimum	250	°C		
Min. melt temperature	240	°C	-	
·			-	
Max. melt temperature	260 80	°C	-	
Mold Temperature Optimum	30	°C	<u> </u>	
Min. mould temperature		°C	-	
Max. mould temperature	130		-	
Hold pressure range	≥60	MPa		
Hold pressure time	As low as possible	s/mm	-	
Back pressure	As low as possible	° C	-	
Ejection temperature	170	°C	-	
Characteristics				

Characteristics			
Processing	 Injection Moulding 		
Dogional Availability	 North America 	 Asia Pacific 	 Near East/Africa
Regional Availability	 Europe 	 South and Central America 	 Global

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Chemical Media Resistance

Acids

Acetic Acid (5% by mass) (23°C)

Citric Acid solution (10% by mass) (23°C)

Lactic Acid (10% by mass) (23°C)

Hydrochloric Acid (36% by mass) (23°C)

Nitric Acid (40% by mass) (23°C)

Sulfuric Acid (38% by mass) (23°C)

Sulfuric Acid (5% by mass) (23°C)

Chromic Acid solution (40% by mass) (23°C)

Bases

Sodium Hydroxide solution (35% by mass) (23°C)

Sodium Hydroxide solution (1% by mass) (23°C)

Ammonium Hydroxide solution (10% by mass) (23°C)

Alcohols

✓ Isopropyl alcohol (23°C)

✓ Methanol (23°C)

✓ Ethanol (23°C)

Hydrocarbons

n-Hexane (23°C)

√ Toluene (23°C)

√ iso-Octane (23°C)

Ketones

✓ Acetone (23°C)

Ethers

Diethyl ether (23°C)

Mineral oil

SAE 10W40 multigrade motor oil (23°C)

SAE 10W40 multigrade motor oil (130°C)

SAE 80/90 hypoid-gear oil (130°C)

Insulating Oil (23°C)

Standard Fuels

ISO 1817 Liquid 1 - E5 (60°C)

ISO 1817 Liquid 2 - M15E4 (60°C)

ISO 1817 Liquid 3 - M3E7 (60°C)

ISO 1817 Liquid 4 - M15 (60°C)

Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)

Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)

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Diesel fuel (pref. ISO 1817 Liquid F) (23°C)

Diesel fuel (pref. ISO 1817 Liquid F) (90°C)

Diesel fuel (pref. ISO 1817 Liquid F) (>90°C)

Salt solutions

Sodium Chloride solution (10% by mass) (23°C)

Sodium Hypochlorite solution (10% by mass) (23°C) Sodium Carbonate solution (20% by mass) (23°C)

Sodium Carbonate solution (2% by mass) (23°C)

Zinc Chloride solution (50% by mass) (23°C)

Ethyl Acetate (23°C)

Hydrogen peroxide (23°C)



DOT No. 4 Brake fluid (130°C)



Ethylene Glycol (50% by mass) in water (108°C)



1% nonylphenoxy-polyethyleneoxy ethanol in water (23°C)





50% Oleic acid + 50% Olive Oil (23°C)



Water (23°C)



Water (90°C) Phenol solution (5% by mass) (23°C)

Symbols used:

✓ possibly resistant

Defined as: Supplier has sufficient indication that contact with chemical can be potentially accepted under the intended use conditions and expected service life. Criteria for assessment have to be indicated (e.g. surface aspect, volume change, property change).



not recommended - see explanation

Defined as: Not recommended for general use. However, short-term exposure under certain restricted conditions could be acceptable (e.g. fast cleaning with thorough rinsing, spills, wiping, vapor exposure).

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc. ISO Mechanical properties measured at 4mm (Hytrel® measured at 2 mm), IEC Electrical properties measured at 2mm, all ASTM properties measured at 3.2mm, and test temperatures are 23°C unless otherwise stated.

The information set forth herein is furnished free of charge and is based on technical data that DuPont believes to be reliable and falls within the normal range of properties. It is intended for use by persons having technical skill, at their own discretion and risk. This data should not be used to establish specification limits nor used alone as the basis of design. Handling precaution information is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards. Since conditions of product use and disposal are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. As with any product, evaluation under end-use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate or a recommendation to infringe on patents. Caution: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, discuss with your DuPont customer representative and read Medical Caution H-50103-5.

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