

DuPont™ Rynite® FG530 NC011

THERMOPLASTIC POLYESTER RESIN

Product Information

Rynite® FG530 NC011 is a 30% glass reinforced modified polyethylene terephthalate resin. It has been developed for consideration into applications for the food industry.

FOOD CONTACT

This product is manufactured according to Good Manufacturing Practice (GMP) principles and generally accepted in food contact applications in Europe and the USA when meeting applicable use conditions. For details, individual compliance statements are available from your DuPont representative.

General information	Value	Unit	Test Standard
Resin Identification	PET-GF30	-	ISO 1043
Part Marking Code	PET-GF30	-	ISO 11469
Rheological properties	Value	Unit	Test Standard
Moulding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.8	%	ISO 294-4, 2577
Mechanical properties	Value	Unit	Test Standard
Tensile Modulus	10500	MPa	ISO 527-1/-2
Stress at break	162	MPa	ISO 527-1/-2
Strain at break	2.1	%	ISO 527-1/-2
Poisson's ratio	0.34	-	ISO 527-1/-2
Charpy impact strength, 23°C	40	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	11	kJ/m ²	ISO 179/1eA
Thermal properties	Value	Unit	Test Standard
Melting temperature, 10°C/min	257	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	242	°C	ISO 75-1/-2
Flammability	Value	Unit	Test Standard
FMVSS Class	B	-	ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	<100	mm/min	ISO 3795 (FMVSS 302)
Electrical properties	Value	Unit	Test Standard
Comparative tracking index	250	-	IEC 60112
Other properties	Value	Unit	Test Standard
Density	1570	kg/m ³	ISO 1183
VDA Properties	Value	Unit	Test Standard
Emission of organic compounds	16	µgC/g	VDA 277
Odour	3	class	VDA 270
Fogging, G-value (condensate)	0	mg	ISO 6452
Injection	Value	Unit	Test Standard
Drying Recommended	yes	-	-
Drying Temperature	≥120	°C	-
Drying Time, Dehumidified Dryer	4 - 6	h	-
Processing Moisture Content	≤0.02 ^[1]	%	-
Melt Temperature Optimum	285	°C	-
Min. melt temperature	280	°C	-
Max. melt temperature	300	°C	-
Max. screw tangential speed	0.2	m/s	-
Mold Temperature Optimum	130	°C	-
Min. mould temperature	120	°C	-
Max. mould temperature	140 ^[2]	°C	-
Hold pressure range	≥80	MPa	-
Hold pressure time	4	s/mm	-
Back pressure	As low as possible	-	-
Ejection temperature	170	°C	-

1: At levels above 0.02%, strength and toughness will decrease, even though parts may not exhibit surface defects. 2: (6mm - 1mm thickness)

To find out more, visit [DuPont Performance Polymers](#) or contact nearest DuPont location.

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Asia Pacific

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Europe/Middle East/Africa

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Characteristics

Processing	• Injection Moulding		
Delivery form	• Pellets		
Additives	• Release agent		
Regional Availability	• North America	• Asia Pacific	• Near East/Africa
	• Europe	• South and Central America	• Global

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.

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