

Revision 20180524

ULTEM[™] RESIN 2212R

REGION AMERICAS

DESCRIPTION

20% Milled glass filled, enhanced flow Polyetherimide (Tg 217C) with internal mold release. ECO Conforming, UL94 V0 and 5VA listing.

TYPICAL PROPERTY VALUES

PROPERTIES TYPICAL VALUES UNITS **TEST METHODS** MECHANICAL Tensile Stress, brk, Type I, 5 mm/min 92 MPa ASTM D 638 6 ASTM D 638 Tensile Strain, brk, Type I, 5 mm/min % Tensile Modulus, 5 mm/min 4270 MPa ASTM D 638 Flexural Stress, brk, 2.6 mm/min, 100 mm span 172 MPa ASTM D 790 5100 ASTM D 790 Flexural Modulus, 2.6 mm/min, 100 mm span MPa IMPACT Izod Impact, notched, 23°C 48 J/m ASTM D 256 384 Izod Impact, Reverse Notched, 3.2 mm J/m ASTM D 256 THERMAL HDT, 1.82 MPa, 6.4 mm, unannealed 205 °C ASTM D 648 °C UL 746B **Relative Temp Index, Elec** 170 Relative Temp Index, Mech w/impact 170 °C UL 746B Relative Temp Index, Mech w/o impact 170 °C UL 746B PHYSICAL **Specific Gravity** 1.43 ASTM D 792 Melt Flow Rate, 337°C/6.6 kgf 13.5 g/10 min **ASTM D 1238** ELECTRICAL Arc Resistance, Tungsten {PLC} 7 PLC Code ASTM D 495 Hot Wire Ignition (PLC) UL 746A 1 PLC Code 2 PLC Code UL 746A High Voltage Arc Track Rate {PLC} High Ampere Arc Ign, surface {PLC} 3 PLC Code UL 746A Comparative Tracking Index (UL) {PLC} 4 PLC Code UL 746A FLAME CHARACTERISTICS UL 94 UL Recognized, 94V-0 Flame Class Rating (3) 0.41 mm **INJECTION MOLDING** °C 150 **Drying Temperature**

CHEMISTRY THAT MATTERS



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Time	4-6	hrs	
Drying Time (Cumulative)	24	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	350 - 400	°C	
Nozzle Temperature	345 - 400	°C	
Front - Zone 3 Temperature	345 - 400	°C	
Middle - Zone 2 Temperature	340 - 400	°C	
Rear - Zone 1 Temperature	330 - 400	°C	
Mold Temperature	135 – 165	°C	
Back Pressure	0.3 - 0.7	MPa	
Screw Speed	40 - 70	rpm	
Shot to Cylinder Size	40 - 60	%	
Vent Depth	0.025 - 0.076	mm	

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