

RheTech Products FRG220-773UB 20% Glass Fiber Reinforced Polypropylene Copolymer, Chemically Coupled, Flame Retardant, UV Stabilized, Light Grey

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% Glass Fiber Filler

Material Notes:

Applications: Electrical housings Structural components Injection molding conditions reported in table. Information provided by RheTech Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_RheTech-Products-FRG220-773UB-20-Glass-Fiber-Reinforced-Polypropylene-Copolymer-Chemically-Coupled-Flame-Retardant-UV-Stabilized-Light-Grey.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	23/23°C; ASTM D792
Filler Content	20 %	20 %	ASTM D5630
Linear Mold Shrinkage	0.0025 cm/cm	0.0025 in/in	ASTM D955
Melt Flow	6.0 g/10 min @Load 2.16 kg, Temperature 230 °C	6.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	ASTM D2240
Tensile Strength at Break	55.8 MPa	8100 psi	2 in/min; ASTM D638
Flexural Modulus	4.48 GPa	650 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.961 J/cm @Temperature 23.0 °C	1.80 ft-lb/in @Temperature 73.4 °F	ASTM D256
Gardner Impact	0.790 J	0.583 ft-lb	ASTM D5420

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	156 °C	312 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	139 °C	282 °F	ASTM D648
Flammability, UL94	V-2	V-2	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	191 - 199 °C	375 - 390 °F	

Middle Barrel Temperature Processing Properties	199 - 210 °C Metric	390 - 410 °F English	Comments
Front Barrel Temperature	199 - 210 °C	390 - 410 °F	
Nozzle Temperature	204 - 210 °C	400 - 410 °F	
Mold Temperature	23.9 - 37.8 °C	75.0 - 100 °F	
Drying Temperature	51.7 - 65.6 °C	125 - 150 °F	
Dry Time	1 - 2 hour	1 - 2 hour	
Moisture Content	<= 0.050 %	<= 0.050 %	Recommended
Injection Pressure	2.76 - 8.27 MPa	400 - 1200 psi	
Hold Pressure	2.07 - 6.89 MPa	300 - 1000 psi	
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	

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