

RheTech Products FRP102-01 Polypropylene, Flame Retardant, Black

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Flame Retardant

Material Notes:

Applications: Electrical component housings 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-FRP102-01-Polypropylene-Flame-Retardant-Black.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.960 g/cc	0.960 g/cc	23/23°C; ASTM D792
Linear Mold Shrinkage	0.016 cm/cm	0.016 in/in	ASTM D955
Melt Flow	10 g/10 min	10 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	ASTM D2240
Tensile Strength at Break	34.5 MPa	5000 psi	2 in/min; ASTM D638
Flexural Modulus	1.55 GPa	225 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.267 J/cm	0.500 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Gardner Impact	0.904 J	0.667 ft-lb	ASTM D5420

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	98.9 °C	210 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	54.4 °C	130 °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	199 - 210 °C	390 - 410 °F	
Front Barrel Temperature	199 - 210 °C	390 - 410 °F	
Nozzle Temperature	204 °C	400 °F	

Processing Properties	Metric	English	Comments
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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