

RheTech Products HP512-01 High Stiffness Polypropylene Copolymer, UV Stabilized, Black

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

Material Notes:

Applications: Automotive interior applicationsSeat back trimCenter consolesInjection molding conditions reported in table.Information provided by RheTech Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_RheTech-Products-HP512-01-High-Stiffness-Polypropylene-Copolymer-UV-Stabilized-Black.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.910 g/cc	0.910 g/cc	23/23°C; ASTM D792
Filler Content	0.00 %	0.00 %	ASTM D5630
Linear Mold Shrinkage	0.0131 cm/cm	0.0131 in/in	ASTM D955
Melt Flow	26 g/10 min @Load 2.16 kg, Temperature 230 °C	26 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	69	69	ASTM D2240
Tensile Strength at Break	25.5 MPa	3700 psi	2 in/min; ASTM D638
Flexural Modulus	1.17 GPa	170 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.801 J/cm @Temperature 23.0 °C	1.50 ft-lb/in @Temperature 73.4 °F	ASTM D256
Gardner Impact	20.3 J	15.0 ft-lb	ASTM D5420

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	93.3 °C	200 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	54.4 °C	130 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	188 - 216 °C	370 - 420 °F	
Middle Barrel Temperature	193 - 221 °C	380 - 430 °F	
Front Barrel Temperature	199 - 227 °C	390 - 440 °F	

Processing Properties	Metric	English	Comments
Nozzle Temperature	204 - 216 °C	400 - 420 °F	
Mold Temperature	26.7 - 48.9 °C	80.0 - 120 °F	
Drying Temperature	65.6 - 82.2 °C	150 - 180 °F	
Dry Time	1 - 2 hour	1 - 2 hour	
Moisture Content	<= 0.050 %	<= 0.050 %	Recommended
Injection Pressure	2.76 - 10.3 MPa	400 - 1500 psi	
Hold Pressure	2.07 - 8.27 MPa	300 - 1200 psi	
Back Pressure	0.345 - 1.03 MPa	50.0 - 150 psi	

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