

RheTech Products HP514-197 14% Talc Reinforced High Performance Polypropylene Copolymer, UV Stabilized, 848 Black

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 10% Talc Filler

Material Notes:

Applications: Mirror housings Interior trim Center consoles 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-HP514-197-14-Talc-Reinforced-High-Performance-Polypropylene-Copolymer-UV-Stabilized-848-Black.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.00 g/cc	1.00 g/cc	23/23°C; ASTM D792
Filler Content	14 %	14 %	ASTM D5630
Linear Mold Shrinkage	0.0115 cm/cm	0.0115 in/in	ASTM D955
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 230 °C	20 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	72	72	ASTM D2240
Tensile Strength at Break	30.3 MPa	4400 psi	2 in/min; ASTM D638
Flexural Modulus	2.21 GPa	320 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.320 J/cm @Temperature 23.0 °C	0.600 ft-lb/in @Temperature 73.4 °F	ASTM D256
Gardner Impact	2.82 J	2.08 ft-lb	ASTM D5420

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	120 °C	248 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	61.1 °C	142 °F	ASTM D648

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

Front Barrel Temperature Processing Properties	204 - 232 °C Metric	400 - 450 °F English	Comments
Nozzle Temperature	210 - 221 °C	410 - 430 °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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