

RheTech Products P100-00 Polypropylene, Natural

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

Material Notes:

Applications: Automotive components Consumer goods 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-P100-00-Polypropylene-Natural.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.900 g/cc	0.900 g/cc	23/23°C; ASTM D792
Linear Mold Shrinkage	0.0145 cm/cm	0.0145 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	75	75	ASTM D2240
Tensile Strength at Break	37.9 MPa	5500 psi	2 in/min; ASTM D638
Flexural Modulus	1.72 GPa	250 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	1.02 J	0.750 ft-lb	ASTM D5420

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	102 °C	215 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	72.2 °C	162 °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	
Nozzle Temperature	204 - 216 °C	400 - 420 °F	

Mold Temperature Processing Properties	26.7 - 48.9 °C Metric	80.0 - 120 °F English	Comments
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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