

Multibase Multi-Pro® 4005 MI Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Mica Filled, 40% by weight. Features: Rigidity, High Impact Resistance, Good Forms: Pellets Processing Methods: Injection

Molding Uses: Automotive Applications Information provided by Multibase

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-Multi-Pro-4005-MI-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	ASTM D955
Melt Flow	5.0 g/10 min	5.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	31.0 MPa	4500 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Modulus	3.72 GPa	540 ksi	ASTM D790
Izod Impact, Notched	0.481 J/cm	0.900 ft-lb/in	73°F; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	143 °C	290 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	216 - 260 °C	420 - 500 °F	
Middle Barrel Temperature	216 - 260 °C	420 - 500 °F	
Front Barrel Temperature	221 - 260 °C	430 - 500 °F	
Nozzle Temperature	216 - 249 °C	420 - 480 °F	
Mold Temperature	4.44 - 65.6 °C	40.0 - 150 °F	
Drying Temperature	93.3 °C	200 °F	
Dry Time	2 hour	2 hour	

Back Pressure Processing Properties	0.138 - 0.345 MPa Metric	20.0 - 50.0 psi English	Comments
Screw Speed	40 - 100 rpm	40 - 100 rpm	

Descriptive Properties	Value	Comments
Clamp Tonnage	2-4 tons/in ²	
Screw L/D Ratio	20:1	

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