

Multibase Multi-Pro® 3012 RC Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Glass Fiber Reinforced, 30% by weight. Forms: Pellets Processing Methods: Injection Molding Information provided by Multibase

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-Multi-Pro-3012-RC-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955
Melt Flow	7.0 g/10 min	7.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	ASTM D2240
Tensile Strength, Yield	40.5 MPa	5870 psi	ASTM D638
Elongation at Break	17 %	17 %	ASTM D638
Flexural Yield Strength	60.8 MPa	8820 psi	ASTM D790
Flexural Modulus	3.90 GPa	565 ksi	ASTM D790
Izod Impact, Notched	0.481 J/cm	0.900 ft-lb/in	73°F; ASTM D256
Gardner Impact	9.039 J	6.667 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	163 °C	325 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	143 °C	290 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	199 - 260 °C	390 - 500 °F	
Middle Barrel Temperature	204 - 260 °C	400 - 500 °F	
Front Barrel Temperature	216 - 260 °C	420 - 500 °F	
Nozzle Temperature	216 - 249 °C	420 - 480 °F	
Mold Temperature	4.44 - 65.6 °C	40.0 - 150 °F	

Processing Properties	Metric	English	Comments
Dry Time	2 hour	2 hour	
Back Pressure	0.138 - 0.345 MPa	20.0 - 50.0 psi	
Screw Speed	40 - 100 rpm	40 - 100 rpm	

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