

Multibase Multi-Pro® 3011 CHI Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Calcium Carbonate Filler, 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-3011-CHI-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.011 cm/cm	0.011 in/in	ASTM D955
Melt Flow	11 g/10 min	11 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	ASTM D2240
Tensile Strength, Yield	15.2 MPa	2200 psi	ASTM D638
Elongation at Break	500 %	500 %	ASTM D638
Flexural Yield Strength	20.0 MPa	2900 psi	ASTM D790
Flexural Modulus	0.931 GPa	135 ksi	ASTM D790
Izod Impact, Notched	NB	NB	73°F; ASTM D256
Gardner Impact	NB	NB	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	90.6 °C	195 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	188 - 216 °C	370 - 420 °F	
Middle Barrel Temperature	199 - 232 °C	390 - 450 °F	
Front Barrel Temperature	199 - 232 °C	390 - 450 °F	
Nozzle Temperature	193 - 227 °C	380 - 440 °F	
Mold Temperature	4.44 - 65.6 °C	40.0 - 150 °F	
Drying Temperature	93.3 °C	200 °F	

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

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