

Multibase Multi-Pro® 0612 CW Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Calcium carbonate filler, 6% filler 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-0612-CW-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.016 cm/cm	0.016 in/in	ASTM D955
Melt Flow	12 g/10 min @Load 2.16 kg, Temperature 230 °C	12 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	ASTM D2240
Tensile Strength, Yield	29.6 MPa	4300 psi	ASTM D638
Elongation at Break	100 %	100 %	ASTM D638
Flexural Strength	31.0 MPa	4500 psi	ASTM D790
Flexural Modulus	0.896 GPa	130 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm	1.10 ft-lb/in	73°F; ASTM D256
Gardner Impact	10.17 J	7.500 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	93.3 °C	200 °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	

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	

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

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