

Multibase Multi-Pro® 3014 XUGW Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Mineral Filled.Features:Gloss, HighUV Resistance, GoodForms:PelletsProcessing Methods:Injection MoldingUses:FurnitureLawn and Garden EquipmentInformation provided by Multibase

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-Multi-Pro-3014-XUGW-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	ASTM D955
Melt Flow	14 g/10 min	14 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	23.4 MPa	3400 psi	ASTM D638
Elongation at Break	180 %	180 %	ASTM D638
Flexural Yield Strength	38.6 MPa	5600 psi	ASTM D790
Flexural Modulus	1.93 GPa	280 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm	1.10 ft-lb/in	73°F; ASTM D256
Gardner Impact	7.909 J	5.833 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	193 - 221 °C	380 - 430 °F	
Middle Barrel Temperature	193 - 232 °C	380 - 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	

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

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