

Multibase Multi-Pro® 3018 TU Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Talc Filled, 30% by weight. Forms: Pellets Processing Methods: Injection Molding Uses: Automotive Under the Hood Information provided by Multibase

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-Multi-Pro-3018-TU-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0085 cm/cm	0.0085 in/in	ASTM D955
Melt Flow	18 g/10 min	18 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	29.0 MPa	4200 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
Flexural Modulus	2.55 GPa	370 ksi	ASTM D790
Izod Impact, Notched	0.427 J/cm	0.800 ft-lb/in	73°F; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	124 °C	255 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	199 - 221 °C	390 - 430 °F	
Middle Barrel Temperature	204 - 232 °C	400 - 450 °F	
Front Barrel Temperature	204 - 232 °C	400 - 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	2 hour	2 hour	
Back Pressure	0.138 - 0.345 MPa	20.0 - 50.0 psi	
Screw Speed			

Processing Properties	40 - 100 rpm Metric	40 - 100 rpm English	Comments
Descriptive Properties	Value		Comments
Clamp Tonnage	2-4 tons/in ²		
Screw L/D Ratio	20:1		

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