

## Multibase Multi-Pro® 2004 R Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

Glass Fiber Reinforced, 20% by weight. Features: Heat Resistance, High Scratch Resistant Stiffness, Good Forms: Pellets Processing

Methods: Injection Molding Uses: Automotive Applications Information provided by Multibase

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Multibase-Multi-Pro-2004-R-Polypropylene.php](http://www.lookpolymers.com/polymer_Multibase-Multi-Pro-2004-R-Polypropylene.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM D955
Melt Flow	4.0 g/10 min	4.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	44.8 MPa	6500 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Modulus	3.45 GPa	500 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm	1.10 ft-lb/in	73°F; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 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	
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 <sup>2</sup>	
Screw L/D Ratio		20:1	

## Contact Songhan Plastic Technology Co.,Ltd.

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