

Multibase Multi-Pro® 4005 M I Medium Impact 40% Filler Content Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Multi-Pro 4005 M I is a chemically coupled reinforced polypropylene compound featuring high flex modulus and high impact under retention of the heat resistance properties. The product is designed for automotive under the hood applications. Data provided by Multibase.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-Multi-Pro-4005-M-I-Medium-Impact-40-Filler-Content-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	ASTM D792-91
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	ASTM D955-89
Melt Flow	5.0 g/10 min	5.0 g/10 min	(Condition L) ASTM D-1238-94a

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	77	77	10 sec; ASTM D-2240-95
Tensile Strength, Ultimate	31.0 MPa	4500 psi	ASTM D638-95
Elongation at Break	4.0 %	4.0 %	ASTM D638-95
Flexural Strength	35.9 MPa	5210 psi	ASTM D790-95
Flexural Modulus	3.724 GPa	540.1 ksi	Method 1, Proc. B; ASTM D-790-95
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256-93a
Gardner Impact	1.10 J	0.811 ft-lb	ASTM D5420-93

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	143 °C	289 °F	ASTM D648-95
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ASTM D648-95

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