

Polyplastic Armlen® PP MF 40-3M Polypropylene Copolymer, 40% Calcium Carbonate

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer , Polypropylene with 40% Calcium Carbonate (CaCO3) Filler

Material Notes:

Injection molding information provided by PolyPlastic Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyplastic-Armlen-PP-MF-40-3M-Polypropylene-Copolymer-40-Calcium-Carbonate.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0090 - 0.012 cm/cm	0.0090 - 0.012 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0090 - 0.012 cm/cm	0.0090 - 0.012 in/in	ISO 294-4
Melt Flow	16 g/10 min @Load 2.16 kg, Temperature 230 °C	16 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133
Ash	40 %	40 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	20.0 MPa	2900 psi	ISO 527
Elongation at Yield	4.0 %	4.0 %	ISO 527
Flexural Strength	25.0 MPa	3630 psi	ISO 178
Flexural Modulus	2.10 GPa	305 ksi	ISO 178
Charpy Impact Unnotched	2.00 J/cm ² @Temperature -30.0 °C	9.52 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	0.350 J/cm ² @Temperature 23.0 °C	1.67 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 µm/m-°C	33.3 µin/in-°F	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	ISO 75B

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 240 °C	446 - 464 °F	

Processing Properties	Metric	English	Comments
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