

Polyplastic Armlen® PP MF 40-2HS Polypropylene, 40% Mineral Filled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% Calcium Carbonate (CaCO3) Filler , Polypropylene, Mineral Reinforced, Impact Modified

Material Notes:

Impact modified, injection molding Information provided by PolyPlastic Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyplastic-Armlen-PP-MF-40-2HS-Polypropylene-40-Mineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.011 - 0.014 cm/cm	0.011 - 0.014 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0080 - 0.012 cm/cm	0.0080 - 0.012 in/in	ISO 294-4
Melt Flow	14 g/10 min @Load 2.16 kg, Temperature 230 °C	14 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 Break	50 %	50 %	ISO 527
Flexural Strength	30.0 MPa	4350 psi	ISO 178
Flexural Modulus	2.15 GPa	312 ksi	ISO 178
Charpy Impact Unnotched	1.40 J/cm ² @Temperature -40.0 °C	6.66 ft-lb/in ² @Temperature -40.0 °F	ISO 179/1eU
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °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
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C	203 °F	ISO 75B
Vicat Softening Point	100 °C	212 °F	ISO 306/B

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 240 °C	446 - 464 °F	
Mold Temperature	60.0 °C	140 °F	

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