

## Polyplastic Armlen® PP 12IM-895 Impact Modified Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Impact Modified; Molded/Extruded

**Material Notes:**

Impact modified polypropylene composite material UV resistant Information provided by PolyPlastic Group.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polyplastic-Armlen-PP-12IM-895-Impact-Modified-Polypropylene.php](http://www.lookpolymers.com/polymer_Polyplastic-Armlen-PP-12IM-895-Impact-Modified-Polypropylene.php)

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.0076 cm/cm	0.0076 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0011 cm/cm	0.0011 in/in	ISO 294-4
Melt Flow	21 g/10 min @Load 2.16 kg, Temperature 230 °C	21 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	18.0 MPa	2610 psi	ISO 527-2
Elongation at Break	90 %	90 %	ISO 527-1/-2
Flexural Strength	23.0 MPa	3340 psi	ISO 178
Flexural Modulus	1.57 GPa	228 ksi	ISO 178
Izod Impact, Notched (ISO)	9.00 kJ/m <sup>2</sup> @Temperature -20.0 °C	4.28 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	ISO 179
Izod Impact, Unnotched (ISO)	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	102 °C	216 °F	ISO 75-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 230 °C	428 - 446 °F	
Mold Temperature	60.0 °C	140 °F	

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