

Phillips Sumika Marlex® ABF-300 High Flow Thermoplastic Olefin (discontinued **)

Category : Polymer , Thermoplastic , Polyolefin

Material Notes:

Applications: Automotive exterior fascias
Information provided by Chevron Phillips. Phillips Sumika Polypropylene Company has been shut down, as announced in 2011.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Phillips-Sumika-Marlex-ABF-300-High-Flow-Thermoplastic-Olefin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.890 g/cc	0.0322 lb/in ³	injection molded specimen; ISO 1133
	@Thickness 3.17 mm	@Thickness 0.125 in	
Melt Flow	30 g/10 min	30 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	56	56	ISO 868
Tensile Strength, Yield	20.0 MPa	2900 psi	50 mm/min, 1/8" thick injection molded specimen; ISO 1183
Flexural Modulus	0.965 GPa	140 ksi	injection molded specimen, 2 mm/min; ISO 178
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched (ISO)	4.50 kJ/m ²	2.14 ft-lb/in ²	ISO 180
	@Thickness 3.17 mm, Temperature -40.0 °C	@Thickness 0.125 in, Temperature -40.0 °F	
	45.0 kJ/m ²	21.4 ft-lb/in ²	ISO 180
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Impact Test	21.0 J	15.5 ft-lb	Instrumented, 2.2 m/s, ductile; ASTM 3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	29.0 J	21.4 ft-lb	Instrumented, 2.2 m/s, ductile; ASTM D3763
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	79.0 °C	174 °F	injection molded specimen; ISO 75
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	48.0 °C @Thickness 3.17 mm	118.4 °F @Thickness 0.125 in	injection molded specimen; ISO 75

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