

Dow AFFINITY™ SM 1300G Polyolefin Plastomer (POP)

Category : Polymer , Thermoplastic , Polyolefin

Material Notes:

AFFINITY™ SM 1300G is an ethylene alpha-olefin resin for Injection Molding is produced via INSITE™ Technology from Dow Plastics. The resin offers excellent performance in durable injection molded industrial and consumer goods and compression molded closure liners or gaskets. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-AFFINITY-SM-1300G-Polyolefin-Plastomer-POP.php

Physical Properties	Metric	English	Comments
Density	0.902 g/cc	0.0326 lb/in³	ASTM D792
Thickness	3180 microns	125 mil	injection molded
Melt Flow	30 g/10 min	30 g/10 min	ASTM D1238
Slip Level	600 ppm	600 ppm	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	9.142 MPa	1326 psi	crosshead speed 20 in./min; ASTM D638
Tensile Strength, Yield	4.12 MPa	598 psi	crosshead speed 20 in./min; ASTM D638
Elongation at Break	624 %	624 %	crosshead speed 20 in./min; ASTM D638
Flexural Modulus	0.07088 GPa	10.28 ksi	ASTM D790
2% Secant Modulus	0.07088 GPa	10.28 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256
	@Temperature -50.0 °C	@Temperature -58.0 °F	
	2.14 J/cm	4.00 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.67 J/cm	5.00 ft-lb/in	ASTM D256
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	4.81 J/cm	9.00 ft-lb/in	ASTM D256
	@Temperature -20.0 °C	@Temperature -4.00 °F	

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	98.0 °C Metric	208 °F English	Dow Method (DSC) Comments
Vicat Softening Point	79.0 °C	174 °F	ASTM D1525

Contact Songhan Plastic Technology Co.,Ltd.

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