

Dow AFFINITY™ SE 1400 Polyolefin Plastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

AFFINITY® SE 1400 polyolefin plastomer is an ethylene octene resin that offers excellent performance for profile extrusion of thick tubes and good melt strength for low shear blow molding. It has exceptionally high clarity and toughness. AFFINITY SE 1400 polymer has excellent compatibility with other polyolefins, allowing efficient blending and coextrusion. AFFINITY PF 1140 polymer complies with FDA regulation 21 CFR 177.1520c3.1b, which allows for its use in direct food contact applications. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-AFFINITY-SE-1400-Polyolefin-Plastomer.php

Physical Properties	Metric	English	Comments
Density	0.895 g/cc	0.0323 lb/in³	
Melt Flow	1.6 g/10 min @Load 2.16 kg	1.6 g/10 min @Load 4.76 lb	Melt flow ratio I10/I2 is 10.2.

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	89	89	
Tensile Strength, Ultimate	43.4 MPa	6290 psi	
Tensile Strength, Yield	5.20 MPa	754 psi	
Elongation at Break	710 %	710 %	
Modulus of Elasticity	0.172 GPa	24.9 ksi	Molded Sample 2% Secant Modulus

Thermal Properties	Metric	English	Comments
Vicat Softening Point	80.0 °C	176 °F	

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