

Dow Engage® 8180 Polyolefin Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

Material Notes:

Description: Engage® 8180 polyolefin elastomer is a lower density, high performance ethylene-octene copolymer that has excellent flow characteristics and provides good impact properties in blends with polypropylene (PP) and polyethylene (PE). It is widely used in TPO applications where excellent flow temperature impact properties are desired. Engage® 8180 also provides high filler loading capability and excellent electrical properties. When cross-linked by peroxide, silane, or irradiation, it gives exceptional heat aging, compression set, and weather resistance properties. The product form is free-flowing pellets. Information provided by manufacturer. This former DuPont Dow Elastomers product line is now produced by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-Engage-8180-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.863 g/cc	0.0312 lb/in ³	ASTM D792
Mooney Viscosity	35 @Temperature 121 °C	35 @Temperature 250 °F	ML 1 + 4; ASTM D1646
Melt Index of Compound	0.50 g/10 min @Load 2.16 kg, Temperature 190 °C	0.50 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	66	66	ASTM D2240
Hardness, Shore D	16	16	ASTM D2240
Tensile Strength, Ultimate	8.80 MPa	1280 psi	508 mm/min; ASTM D638
Tensile Strength, Yield	1.70 MPa	247 psi	508 mm/min; ASTM D638
Elongation at Break	860 %	860 %	508 mm/min; ASTM D638
2% Secant Modulus	0.00830 GPa	1.20 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	49.0 °C	120 °F	DSC, 10°C/min; DuPont Test
Vicat Softening Point	38.0 °C	100 °F	ASTM D1525
Brittleness Temperature	<= -76.0 °C	<= -105 °F	ASTM D746

Descriptive Properties	Value	Comments
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Descriptive Properties

42 wt%
Value

Down Method (¹³C NMR/FTIR)
Comments

Contact Songhan Plastic Technology Co.,Ltd.

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