Dow Engage® 8100 Polyolefin Elastomer

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

Material Notes:

Description: Engage® 8100 polyolefin elastomer is an ethyleneoctene copolymer that has excellent flow characteristics and performs well in a wide range of general purpose thermoplastic elastomer applications. It provides good impact properties in blends with polypropylene (PP) and polyethylene (PE). Engage® 8100 also provides high filler loading capability and outstanding peroxide cure capability. When crosslinked by peroxide, silane, or irradiation, it gives exceptional heat aging, compression set, and weather resistance properties, and may be used to produce high performance electrical insulation. 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-8100-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.870 g/cc	0.0314 lb/in³	ASTM D792
Mooney Viscosity	23 @Temperature 121 °C	23 @Temperature 250 °F	ML 1 + 4; ASTM D1646
Melt Index of Compound	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	ASTM D2240
Hardness, Shore D	22	22	ASTM D2240
Tensile Strength, Ultimate	10.3 MPa	1490 psi	508 mm/min; ASTM D638
Tensile Strength, Yield	2.10 MPa	305 psi	508 mm/min; ASTM D638
Elongation at Break	820 %	820 %	508 mm/min; ASTM D638
2% Secant Modulus	0.0136 GPa	1.97 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	60.0 °C	140 °F	DSC, 10°C/min; DuPont Test
Vicat Softening Point	39.0 °C	102 °F	ASTM D1525
Brittleness Temperature	<= -76.0 °C	<= -105 °F	ASTM D746

Descriptive Properties	Value	Comments

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Comonomer Content	38 wt%	Raw Method (¹³C NMR/FTIR)

Contact Songhan Plastic Technology Co.,Ltd.

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