

Dow Engage® 8150 Polyolefin Elastomer

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

Material Notes:

Description: Engage® 8150 and Engage® 8157 polyolefin elastomers are ethylene-octene copolymers that have excellent flow characteristics and provide good impact properties in blends with polypropylene (PP) and polyethylene (PE). They are widely used in TPO applications where excellent low temperature impact properties are desired. Engage® 8150 and Engage® 8157 also provide high filler loading capability and outstanding peroxide cure capability. When crosslinked by peroxide, silane, or irradiation, they give exceptional heat aging, compression set, and weather resistance properties, and may be used to produce high performance electrical insulation. Engage® 8157 is Engage® 8150 with a nominal loose talc coating. The talc is untreated, with a 1 micron particle size. 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-8150-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.868 g/cc	0.0314 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	75	75	ASTM D2240
Hardness, Shore D	20	20	ASTM D2240
Tensile Strength, Ultimate	10.9 MPa	1580 psi	508 mm/min; ASTM D638
Tensile Strength, Yield	1.90 MPa	276 psi	508 mm/min; ASTM D638
Elongation at Break	780 %	780 %	508 mm/min; ASTM D638
2% Secant Modulus	0.0118 GPa	1.71 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	55.0 °C	131 °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
Comonomer Content	39 wt%	Dow Method (¹³C NMR/FTIR)

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China