

Dow Engage® 8157 Polyolefin Elastomer

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

Material Notes:

Description: Engage® 8157 polyolefin elastomer is a loose talc surface coated ethylene-octene copolymer. The talc is untreated and has a nominal 1µm particle size. This product offers the exceptional properties of Engage® 8150 with the added potential of handling these polymer pellets in bulk containers. Engage® 8157 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 low temperature impact properties are desired. Talc addition significantly improves ability to handle the polymer, but severe blocking can occur if the material is stored under severe conditions (i.e., long duration, elevated temperatures, and/or high weight loadings). To minimize temperature effects, product should be stored at temperatures well below its melting point of 56°C. 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-8157-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)

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