

Dow Engage® 8445 Polyolefin Elastomer

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

Material Notes:

Description: Engage® 8445 polyolefin elastomer is an ethyleneoctene copolymer that performs well in a wide range of thermoplastic elastomer applications. It has excellent compatibility with other polyolefins, allowing for efficient blending and coextrusion. Engage® 8445 provides excellent flow properties and is efficiently cross-linked by peroxide, silane, or irradiation. When cross-linked, 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-8445-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in ³	ASTM D792
Melt Index of Compound	3.5 g/10 min @Load 2.16 kg, Temperature 190 °C	3.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	96	96	ASTM D2240
Hardness, Shore D	41	41	ASTM D2240
Tensile Strength, Ultimate	21.0 MPa	3050 psi	508 mm/min; ASTM D638
Tensile Strength, Yield	8.30 MPa	1200 psi	508 mm/min; ASTM D638
Elongation at Break	800 %	800 %	508 mm/min; ASTM D638
2% Secant Modulus	0.1101 GPa	15.97 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	103 °C	217 °F	DSC, 10°C/min; DuPont Test
Vicat Softening Point	93.0 °C	199 °F	ASTM D1525

Descriptive Properties	Value	Comments
Comonomer Content	16 wt%	Dow Method (¹³C NMR/FTIR)

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