

Dow Engage® 8452 Polyolefin Elastomer

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

Material Notes:

Description: Engage® 8452 polyolefin elastomer is an ethyleneoctene copolymer that offers excellent toughness, softness, and optical properties. It has excellent compatibility with other polyolefins, allowing for efficient blending and coextrusion. Engage® 8452 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-8452-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.875 g/cc	0.0316 lb/in ³	ASTM D792
Mooney Viscosity	11 @Temperature 121 °C	11 @Temperature 250 °F	ML 1 + 4; ASTM D1646
Melt Index of Compound	3.0 g/10 min @Load 2.16 kg, Temperature 190 °C	3.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	77	77	ASTM D2240
Hardness, Shore D	25	25	ASTM D2240
Tensile Strength, Ultimate	9.80 MPa	1420 psi	508 mm/min; ASTM D638
Tensile Strength, Yield	2.50 MPa	363 psi	508 mm/min; ASTM D638
Elongation at Break	920 %	920 %	508 mm/min; ASTM D638
2% Secant Modulus	0.0166 GPa	2.41 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	67.0 °C	153 °F	DSC, 10°C/min; DuPont Test
Vicat Softening Point	43.0 °C	109 °F	ASTM D1525
Brittleness Temperature	<= -76.0 °C	<= -105 °F	ASTM D746

Descriptive Properties	Value	Comments
Comonomer Content	35 wt%	Dow Method (¹³C NMR/FTIR)

Descriptive Properties	Value	Comments
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