

Dow Engage® 8480 Polyolefin Elastomer

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

Material Notes:

Description: Engage® 8480 polyolefin elastomer is an ethyleneoctene copolymer that offers excellent performance in footwear applications and profile extrusion of tubing and hoses. It has good clarity, toughness, and flexibility. Engage® 8480 also has excellent compatibility with other polyolefins, allowing for efficient blending and coextrusion. 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-8480-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.902 g/cc	0.0326 lb/in ³	ASTM D792
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	94	94	ASTM D2240
Hardness, Shore D	45	45	ASTM D2240
Tensile Strength, Ultimate	25.8 MPa	3740 psi	508 mm/min; ASTM D638
Tensile Strength, Yield	7.00 MPa	1020 psi	508 mm/min; ASTM D638
Elongation at Break	630 %	630 %	508 mm/min; ASTM D638
2% Secant Modulus	0.0780 GPa	11.3 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	100 °C	212 °F	DSC, 10°C/min; DuPont Test
Vicat Softening Point	86.0 °C	187 °F	ASTM D1525

Descriptive Properties	Value	Comments
Comonomer Content	20 wt%	Dow Method (¹³C NMR/FTIR)

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