

Dow Engage® 8003 Polyolefin Elastomer

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

Material Notes:

Description: Engage® 8003 polyolefin elastomer is an ethyleneoctene copolymer that has excellent flow characteristics and performs well in a wide variety of general purpose thermoplastic elastomer applications. It provides good impact properties in blends with polypropylene (PP) and polyethylene (PE). Engage® 8003 also provides high filler loading capability and outstanding peroxide cure capability. When crosslinked by peroxide, silane, or irradiation, it gives exceptional heat aging, compression set, and weather resistance properties, and may be used to produce high performance electrical insulation and jacketing. 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-8003-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.885 g/cc	0.0320 lb/in ³	ASTM D792
Mooney Viscosity	22 @Temperature 121 °C	22 @Temperature 250 °F	ML 1 + 4; ASTM D1646
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	86	86	ASTM D2240
Hardness, Shore D	33	33	ASTM D2240
Tensile Strength, Ultimate	21.8 MPa	3160 psi	508 mm/min; ASTM D638
Tensile Strength, Yield	4.10 MPa	595 psi	508 mm/min; ASTM D638
Elongation at Break	670 %	670 %	508 mm/min; ASTM D638
2% Secant Modulus	0.0351 GPa	5.09 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	78.0 °C	172 °F	DSC, 10°C/min; DuPont Test
Vicat Softening Point	60.0 °C	140 °F	ASTM D1525
Brittleness Temperature	<= -76.0 °C	<= -105 °F	ASTM D746

Descriptive Properties	Value	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

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