

Dow Engage® 8407 Polyolefin Elastomer

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

Material Notes:

Description: Engage® 8407 polyolefin elastomer is an ethyleneoctene copolymer with a nominal loose talc coating. The talc is untreated and has a 1µm particle size. Engage® 8407 offers excellent performance in durable injection molded industrial and consumer goods and compression molded gaskets. Engage® 8407 provides high clarity in products requiring visual inspection and allows the use of hot runner molds to enhance production efficiency. In addition, its low density can help control resin and production costs, while reducing the weight of end products. Engage® 8407 also provides good impact properties in blends with polypropylene (PP) and polyethylene (PE), especially in applications requiring high melt flow modifiers. 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-8407-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.870 g/cc	0.0314 lb/in ³	ASTM D792
Melt Index of Compound	30 g/10 min @Load 2.16 kg, Temperature 190 °C	30 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	72	72	ASTM D2240
Hardness, Shore D	20	20	ASTM D2240
Tensile Strength, Ultimate	3.30 MPa	479 psi	508 mm/min; ASTM D638
Tensile Strength, Yield	2.00 MPa	290 psi	508 mm/min; ASTM D638
Elongation at Break	1010 %	1010 %	508 mm/min; ASTM D638
2% Secant Modulus	0.0121 GPa	1.75 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	60.0 °C	140 °F	DSC, 10°C/min; DuPont Test
Vicat Softening Point	41.0 °C	106 °F	ASTM D1525

Descriptive Properties	Value	Comments
Comonomer Content	40 wt%	Dow Method (¹³C NMR/FTIR)

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