Dow Engage® 8400 Polyolefin Elastomer

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

Material Notes:

Description: Engage® 8400 and Engage® 8407 polyolefin elastomers are ethylene-octene copolymers that offer excellent performance in durable injection molded industrial and consumer goods and compression molded gaskets. Engage® 8400 and Engage® 8407 provide high clarity in products requiring visual inspection and allows the use of hot runner molds to enhance production efficiency. In addition, their low density can help control resin and production costs, while reducing the weight of end products. Engage® 8400 and Engage® 8407 also provide good impact properties in blends with polypropylene (PP) and polyethylene (PE), especially in applications requiring high melt flow modifiers. Engage® 8407 is Engage® 8400 with a nominal loose talc coating. The talc is untreated with a 1micron particle size. The product form for Engage® 8400 and Engage® 8407 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-8400-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.870 g/cc	0.0314 lb/in³	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	1000 %	1000 %	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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