

Dow Engage® 8402 Polyolefin Elastomer

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

Material Notes:

Description: Engage® 8402 polyolefin elastomer is an ethyleneoctene copolymer that offers excellent performance in durable, flexible injection molded industrial and consumer goods. Engage® 8402 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. 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-8402-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.902 g/cc	0.0326 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	94	94	ASTM D2240
Hardness, Shore D	44	44	ASTM D2240
Tensile Strength, Ultimate	12.9 MPa	1870 psi	508 mm/min; ASTM D638
Tensile Strength, Yield	6.30 MPa	914 psi	508 mm/min; ASTM D638
Elongation at Break	790 %	790 %	508 mm/min; ASTM D638
2% Secant Modulus	0.0699 GPa	10.1 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	98.0 °C	208 °F	DSC, 10°C/min; DuPont Test
Vicat Softening Point	76.0 °C	169 °F	ASTM D1525

Descriptive Properties	Value	Comments
Comonomer Content	22 wt%	Dow Method (¹³C NMR/FTIR)

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