

Dow Engage® Polyolefin Elastomer

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

Material Notes:

Engage® thermoplastic elastomers are ethylene octene copolymers produced via advanced INSITE™ catalyst and process technology, allowing control over polymer structure, properties, and rheology. Engage® features extended part/product life over Styrene Block Copolymers; improved flexibility and crack-resistance vs. EVA or EMA; improved processibility and enhanced properties vs. flexible PVCs; and greater durability vs. EPDM or EPR. Property data below shows the range of typical properties. Information provided by DuPont Dow Elastomers. 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-Polyolefin-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.857 - 0.913 g/cc	0.0310 - 0.0330 lb/in ³	ASTM D792
Melt Flow	0.50 - 30 g/10 min	0.50 - 30 g/10 min	I2; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50 - 95	50 - 95	ASTM D2240
Tensile Strength, Ultimate	4.00 - 35.0 MPa	580 - 5080 psi	ASTM D638
Elongation at Break	>= 700 %	>= 700 %	ASTM D638
100% Modulus	0.00100 - 0.00500 GPa	0.145 - 0.725 ksi	ASTM D412
Flexural Modulus	0.00300 - 0.190 GPa	0.435 - 27.6 ksi	2% Secant; ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	33.0 - 107 °C	91.4 - 225 °F	
Brittleness Temperature	<= -76.0 °C	<= -105 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	10 - 20 % @Thickness 1.78 mm	10 - 20 % @Thickness 0.0700 in	<10 to 20%; injection molded plaque; ASTM D1003

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