

Dow Engage® ENR 7256.00 Ethylene-Butene Copolymer

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

Material Notes:

Description: ENR 7256.00 is a unique broader molecular weight distribution ethylene-butene copolymer with higher branching levels that offers excellent clarity, processing and performance in foams and extrusion applications such as tubing, profiles and wire & cable insulations. The polymer is available as pellets for ease in handling and mixing. 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-ENR-725600-Ethylene-Butene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.885 g/cc	0.0320 lb/in ³	ASTM D792
Viscosity	910000 cP	910000 cP	100 rad/sec; ARES Rheometer
	@Shear Rate 100 1/s, Temperature 190 °C	@Shear Rate 100 1/s, Temperature 374 °F	
	2.26e+6 cP	2.26e+6 cP	10 rad/sec; ARES Rheometer
	@Shear Rate 10.0 1/s, Temperature 190 °C	@Shear Rate 10.0 1/s, Temperature 374 °F	
	4.06e+6 cP	4.06e+6 cP	1.58 rad/sec; ARES Rheometer
	@Shear Rate 1.58 1/s, Temperature 190 °C	@Shear Rate 1.58 1/s, Temperature 374 °F	
Melt Index of Compound	7.01e+6 cP	7.01e+6 cP	0.1 rad/sec; ARES Rheometer
	@Shear Rate 0.100 1/s, Temperature 190 °C	@Shear Rate 0.100 1/s, Temperature 374 °F	
	2.0 g/10 min	2.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
Crystallinity	18.8 %	18.8 %	25°C; DuPont Test
	22.8 %	22.8 %	Total; DuPont Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	79	79	10 sec; ASTM D2240
Tensile Strength, Ultimate	11.7 MPa	1700 psi	508 mm/min; ASTM D638
Elongation at Break	820 %	820 %	508 mm/min; ASTM D638

1% Secant Modulus Mechanical Properties	27.20 MPa Metric	3945 psi English	ASTM D790 Comments
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Thermal Properties	Metric	English	Comments
Melting Point	73.0 °C	163 °F	DSC, 10°C/min (peak); DuPont Test
Crystallization Temperature	58.0 °C	136 °F	DSC, 10°C/min (peak); DuPont Test
Vicat Softening Point	53.0 °C	127 °F	ASTM D1525
Glass Transition Temp, Tg	-45.0 °C	-49.0 °F	DSC, 10°C/min (inf); DuPont Test

Descriptive Properties	Value	Comments
Molecular Weight Distribution	Medium	GPC

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