

Dow Engage® ENR 7380.00 Ethylene-Butene Copolymer

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

Material Notes:

Description: ENR 7380.00 is a revolutionary new ethylene-butene copolymer with higher molecular weight, better toughness, and higher melt strength than other commercially available polyolefin elastomers. It can serve as an extender for SEBS, impart lower gloss in hard TPOs, provide the basis for flexible soft-touch compounds, and is well-suited for extruded applications such as wire and cable. ENR 7380 is also useful for impact modification of various thermoplastic resins. 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-738000-Ethylene-Butene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.870 g/cc	0.0314 lb/in ³	ASTM D792
Viscosity	3.60e+6 cP	3.60e+6 cP	100 rad/sec; ARES Rheometer
	@Shear Rate 100 1/s, Temperature 190 °C	@Shear Rate 100 1/s, Temperature 374 °F	
	1.10e+7 cP	1.10e+7 cP	10 rad/sec; ARES Rheometer
	@Shear Rate 10.0 1/s, Temperature 190 °C	@Shear Rate 10.0 1/s, Temperature 374 °F	
	1.80e+7 cP	1.80e+7 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	
	2.83e+7 cP	2.83e+7 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	
Mooney Viscosity	48	48	ML 1 + 4; ASTM D1646
	@Temperature 121 °C	@Temperature 250 °F	
Crystallinity	9.1 %	9.1 %	25°C; DuPont Test
	15.7 %	15.7 %	
	@Temperature -40.0 °C	@Temperature -40.0 °F	Total; DuPont Test

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	68	68	10 sec; ASTM D2240
Tensile Strength, Ultimate	10.6 MPa	1540 psi	508 mm/min; ASTM D638
Elongation at Break	760 %	760 %	508 mm/min; ASTM D638

7% Secant Modulus Mechanical Properties	0.0135 GPa Metric	1.96 ksi English	ASTM D780 Comments
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Thermal Properties	Metric	English	Comments
Melting Point	48.0 °C	118 °F	DSC, 10°C/min (peak); DuPont Test
Crystallization Temperature	34.0 °C	93.2 °F	DSC, 10°C/min (peak); DuPont Test
Glass Transition Temp, Tg	-52.0 °C	-61.6 °F	DSC, 10°C/min (inf); DuPont Test

Descriptive Properties	Value	Comments
Molecular Weight Distribution	Narrow	GPC

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China