

Dow Engage® ENR 7086.01 Ethylene-Butene Copolymer

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

Material Notes:

Description: ENR 7086.01 is a revolutionary new ethylene-butene copolymer with a broader molecular weight distribution and much higher levels of long chain branching than other commercially available polyolefin elastomers. It is ideally suited for use alone or as an additive to enhance processing in blow molding, extrusion and thermoforming applications where high levels of shear thinning and high melt strength may be required. 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-708601-Ethylene-Butene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.901 g/cc	0.0326 lb/in ³	ASTM D792
Viscosity	2.00e+6 cP	2.00e+6 cP	100 rad/sec; ARES Rheometer
	@Shear Rate 100 1/s, Temperature 190 °C	@Shear Rate 100 1/s, Temperature 374 °F	
	6.50e+6 cP	6.50e+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	
	1.50e+7 cP	1.50e+7 cP	1.58 rad/sec; ARES Rheometer
Mooney Viscosity	@Shear Rate 1.58 1/s, Temperature 190 °C	@Shear Rate 1.58 1/s, Temperature 374 °F	
	5.00e+7 cP	5.00e+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	
	26	26	ML 1 + 4; ASTM D1646
	@Temperature 125 °C	@Temperature 257 °F	
Melt Index of Compound	<= 0.50 g/10 min	<= 0.50 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	3.6 g/10 min	3.6 g/10 min	ASTM D1238
Crystallinity	@Load 10.0 kg, Temperature 190 °C	@Load 22.0 lb, Temperature 374 °F	
	28.2 %	28.2 %	25°C; DuPont Test
	28.8 %	28.8 %	Total; DuPont Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	88	88	10 sec; ASTM D2240
Tensile Strength, Ultimate	20.0 MPa	2900 psi	508 mm/min; ASTM D638
Elongation at Break	625 %	625 %	508 mm/min; ASTM D638
2% Secant Modulus	0.0679 GPa	9.85 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	93.0 °C	199 °F	DSC, 10°C/min (peak); DuPont Test
Crystallization Temperature	78.0 °C	172 °F	DSC, 10°C/min (peak); DuPont Test
Glass Transition Temp, Tg	-35.0 °C	-31.0 °F	DSC, 10°C/min (inf); DuPont Test

Descriptive Properties	Value	Comments
Molecular Weight Distribution	Medium	GPC

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