Dow Engage® ENX 7458.00 Ethylene-Butene Copolymer

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

Material Notes:

Description: ENX 7458.00 is a unique broader molecular weight distribution ethylene-butene copolymer that offers excellent flow and impact properties and is ideally suited for plastics modification. Its improved dispersion characteristics make possible the development of high-flow TPO compounds for larger and/or thin walled applications. The polymer has very low crystallinity and is available as surface modified 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-ENX-745800-Ethylene-Butene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.863 g/cc	0.0312 lb/in³	ASTM D792
Viscosity	1.11e+6 cP @Shear Rate 100 1/s, Temperature 190 °C	1.11e+6 cP @Shear Rate 100 1/s, Temperature 374 °F	100 rad/sec; ARES Rheometer
	2.36e+6 cP @Shear Rate 10.0 1/s, Temperature 190 °C	2.36e+6 cP @Shear Rate 10.0 1/s, Temperature 374 °F	10 rad/sec; ARES Rheometer
	3.35e+6 cP @Shear Rate 1.58 1/s, Temperature 190 °C	3.35e+6 cP @Shear Rate 1.58 1/s, Temperature 374 °F	1.58 rad/sec; ARES Rheometer
	4.14e+6 cP @Shear Rate 0.100 1/s, Temperature 190 °C	4.14e+6 cP @Shear Rate 0.100 1/s, Temperature 374 °F	0.1 rad/sec; ARES Rheometer
Melt Index of Compound	2.5 g/10 min @Load 2.16 kg, Temperature 190 °C	2.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
Crystallinity	4.3 %	4.3 %	25°C; DuPont Test
	12 %	12 %	Total; DuPont Test

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	10 sec; ASTM D2240
Tensile Strength, Ultimate	2.00 MPa	290 psi	508 mm/min; ASTM D638
Elongation at Break	940 %	940 %	508 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
2% Secant Modulus	0.00530 GPa	0.769 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	37.0 °C	98.6 °F	DSC, 10°C/min (peak); DuPont Test
Crystallization Temperature	17.0 °C	62.6 °F	DSC, 10°C/min (peak); DuPont Test
Glass Transition Temp, Tg	-58.0 °C	-72.4 °F	DSC, 10°C/min (inf); DuPont Test

Descriptive Properties	Value	Comments
Molecular Weight Distribution	Medium	GPC

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