

## Dow Engage® ENR 7447.00 Ethylene-Butene Copolymer

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

### Material Notes:

Description: ENR 7447.00 is a high flow, low density ethylene-butene copolymer designed for use in combination with our other elastomers to provide tailored solutions in polymer modification applications. The polymer 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-ENR-744700-Ethylene-Butene-Copolymer.php](http://www.lookpolymers.com/polymer_Dow-Engage-ENR-744700-Ethylene-Butene-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	0.865 g/cc	0.0313 lb/in <sup>3</sup>	ASTM D792
Viscosity	885000 cP	885000 cP	100 rad/sec; ARES Rheometer
	@Shear Rate 100 1/s, Temperature 190 °C	@Shear Rate 100 1/s, Temperature 374 °F	
	1.38e+6 cP	1.38e+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	
	1.51e+6 cP	1.51e+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		
1.55e+6 cP	1.55e+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		
Melt Index of Compound	5.0 g/10 min	5.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
Crystallinity	5.9 %	5.9 %	25°C; DuPont Test
	13.0 %	13.0 %	Total; DuPont Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	57	57	10 sec; ASTM D2240
Tensile Strength, Ultimate	2.30 MPa	334 psi	508 mm/min; ASTM D638
Elongation at Break	650 %	650 %	508 mm/min; ASTM D638
1% Secant Modulus	7.2002 MPa	1044.3 psi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	42.0 °C	108 °F	DSC, 10°C/min (peak); DuPont Test
Crystallization Temperature	26.0 °C	78.8 °F	DSC, 10°C/min (peak); DuPont Test
Glass Transition Temp, Tg	-56.0 °C	-68.8 °F	DSC, 10°C/min (inf); DuPont Test

Descriptive Properties	Value	Comments
Molecular Weight Distribution	Narrow	GPC

## Contact Songhan Plastic Technology Co.,Ltd.

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