

Dow Engage® ENR 7270.00 Ethylene-Butene Copolymer

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

Material Notes:

Description: ENR 7270.00 is a general purpose ethylene-butene copolymer designed to provide good cost/performance balance in polymer modification applications. 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-727000-Ethylene-Butene-Copolymer.php

| Physical Properties | Metric | English | Comments |
|------------------------|--|--|------------------------------|
| Density | 0.880 g/cc | 0.0318 lb/in ³ | ASTM D792 |
| Viscosity | 2.64e+6 cP | 2.64e+6 cP | 100 rad/sec; ARES Rheometer |
| | @Shear Rate 100 1/s, Temperature 190 °C | @Shear Rate 100 1/s, Temperature 374 °F | |
| | 5.965e+6 cP | 5.965e+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 | |
| Melt Index of Compound | 7.73e+6 cP | 7.73e+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 | |
| Crystallinity | 1.037e+7 cP | 1.037e+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 | |
| Melt Index of Compound | 0.80 g/10 min | 0.80 g/10 min | ASTM D1238 |
| | @Load 2.16 kg, Temperature 190 °C | @Load 4.76 lb, Temperature 374 °F | |
| Crystallinity | 15 % | 15 % | 25°C; DuPont Test |
| | 19.3 % | 19.3 % | |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | Total; DuPont Test |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------|------------|-----------------------|
| Hardness, Shore A | 78 | 78 | 10 sec; ASTM D2240 |
| Tensile Strength, Ultimate | 15.0 MPa | 2180 psi | 508 mm/min; ASTM D638 |
| Elongation at Break | 700 % | 700 % | 508 mm/min; ASTM D638 |
| 1% Secant Modulus | 24.100 MPa | 3495.4 psi | ASTM D790 |

| Thermal Properties | Metric | English | Comments |
|-----------------------------|----------|----------|-----------------------------------|
| Melting Point | 62.0 °C | 144 °F | DSC, 10°C/min (peak); DuPont Test |
| Crystallization Temperature | 49.0 °C | 120 °F | DSC, 10°C/min (peak); DuPont Test |
| Vicat Softening Point | 54.0 °C | 129 °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 | Narrow | GPC |

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