

Dow HDPE 38152M High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

Material Notes:

DOW HDPE 38152M resin is a medium molecular weight distribution copolymer designed to offer good impact strength and stress crack resistance with excellent toughness. This resin has excellent processability over a wide range of molding conditions. Typical applications are base cups and general purpose applications. This material complies with FDA regulation 21 CFR 177.1520 (c) 3.1 for food contact applications. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-HDPE-38152M-High-Density-Polyethylene.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|--------------------------------|
| Density | 0.952 g/cc | 0.0344 lb/in ³ | |
| Viscosity | 38000 cP | 38000 cP | Apparent Dynamic Viscosity |
| | @Shear Rate 5000 1/s, Temperature 190 °C | @Shear Rate 5000 1/s, Temperature 374 °F | |
| | 80000 cP | 80000 cP | |
| Melt Flow | @Shear Rate 1000 1/s, Temperature 190 °C | @Shear Rate 1000 1/s, Temperature 374 °F | Apparent Dynamic Viscosity |
| | 180000 cP | 180000 cP | |
| | @Shear Rate 300 1/s, Temperature 190 °C | @Shear Rate 300 1/s, Temperature 374 °F | |
| Melt Flow | 38 g/10 min | 38 g/10 min | Melt flow ratio I10/I2 is 8.5. |
| | @Load 2.16 kg | @Load 4.76 lb | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------------------|----------------------------|---------------------------------|
| Tensile Strength, Ultimate | 11.0 MPa | 1600 psi | |
| Tensile Strength, Yield | 20.7 MPa | 3000 psi | |
| Elongation at Break | 300 % | 300 % | |
| Modulus of Elasticity | 0.627 GPa | 90.9 ksi | Molded Sample 2% Secant Modulus |
| Flexural Modulus | 0.952 GPa | 138 ksi | |
| Izod Impact Resistance | 2.67 J/cm ² | 12.7 ft-lb/in ² | |

| Thermal Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| Vicat Softening Point | 116 °C | 241 °F | |

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