

Dow HDPE 30460M High Density Polyethylene

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

Material Notes:

DOW HDPE 30460M resin is a medium molecular weight distribution copolymer designed to offer moderate impact strength and stress crack resistance with excellent rigidity. This resin has excellent processability over a wide range of molding conditions. Typical applications are thin wall containers, overcaps, and general purpose applications. It complies with FDA regulation 21 CFR 177.1520 (c) 3.2(a) for food contact applications. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-HDPE-30460M-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	
Viscosity	48000 cP	48000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	73000 cP	73000 cP	Apparent Dynamic Viscosity
	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	
	105000 cP	105000 cP	Apparent Dynamic Viscosity
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	
Melt Flow	30 g/10 min	30 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	22.1 MPa	3210 psi	
Elongation at Break	400 %	400 %	
Modulus of Elasticity	0.759 GPa	110 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	1.21 GPa	175 ksi	
Izod Impact Resistance	3.20 J/cm ²	15.2 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	125 °C	257 °F	

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