

Dow HDPE 17450N High Density Polyethylene

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

Material Notes:

DOW HDPE 17450N resin is a narrow molecular weight distribution copolymer designed to offer low temperature impact strength and gloss with excellent toughness. This resin has good processability over a wide range of molding conditions. Typical applications are toys and housewares. 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-17450N-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	
Viscosity	75000 cP	75000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	140000 cP	140000 cP	
Melt Flow	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	Apparent Dynamic Viscosity
	200000 cP	200000 cP	
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	
Melt Flow	17 g/10 min	17 g/10 min	
	@Load 2.16 kg	@Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	13.1 MPa	1900 psi	
Tensile Strength, Yield	18.6 MPa	2700 psi	
Elongation at Break	660 %	660 %	
Modulus of Elasticity	0.593 GPa	86.0 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.862 GPa	125 ksi	
Izod Impact Resistance	8.01 J/cm ²	38.1 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	123 °C	253 °F	

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