

Dow HDPE 25455N High Density Polyethylene

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

Material Notes:

DOW HDPE 25455N resin is a narrow molecular weight distribution copolymer designed to offer good stress crack resistance and gloss with excellent toughness. This resin has good processability over a wide range of molding conditions. Typical applications are toys, housewares and medical 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-25455N-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in ³	
Viscosity	55000 cP	55000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	110000 cP	110000 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	25 g/10 min	25 g/10 min	
	@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	320 %	320 %	
Modulus of Elasticity	0.607 GPa	88.0 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.952 GPa	138 ksi	
Izod Impact Resistance	4.80 J/cm ²	22.8 ft-lb/in ²	

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

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