

Dow HDPE 08454N High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Impact Grade

Material Notes:

DOW HDPE 08454N resin is a narrow molecular weight distribution copolymer designed to offer excellent impact strength and toughness, with good stiffness. This resin has good processability over a wide range of molding conditions. Typical applications are in structural foams, industrial containers, cases/crates etc. This material 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-08454N-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in ³	
Viscosity	90000 cP	90000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	220000 cP	220000 cP	
Melt Flow	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	Apparent Dynamic Viscosity
	360000 cP	360000 cP	
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	
Melt Flow	7.0 g/10 min	7.0 g/10 min	
	@Load 2.16 kg	@Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	17.0 MPa	2470 psi	
Tensile Strength, Yield	20.7 MPa	3000 psi	
Elongation at Break	700 %	700 %	
Modulus of Elasticity	0.669 GPa	97.0 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	1.01 GPa	146 ksi	
Izod Impact Resistance	12.3 J/cm ²	58.5 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	124 °C	255 °F	

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