

Dow HDPE 04452N High Density Polyethylene

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

Material Notes:

DOW HDPE 04452N resin is a narrow molecular weight distribution copolymer designed to offer good stress crack resistance and stacking strength with excellent impact strength. This resin has moderate processability over a wide range of molding conditions. Typical applications are, 1 & 5 gallon pails. 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-04452N-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	
Viscosity	105000 cP	105000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	270000 cP	270000 cP	
Melt Flow	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	Apparent Dynamic Viscosity
	480000 cP	480000 cP	
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	
Melt Flow	4.0 g/10 min	4.0 g/10 min	
	@Load 2.16 kg	@Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	19.0 MPa	2760 psi	
Tensile Strength, Yield	19.3 MPa	2800 psi	
Elongation at Break	600 %	600 %	
Modulus of Elasticity	0.607 GPa	88.0 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.889 GPa	129 ksi	
Izod Impact Resistance	17.6 J/cm ²	83.8 ft-lb/in ²	

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China