

Dow HDPE 65053N High Density Polyethylene

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

Material Notes:

DOW HDPE 65053N resin is a narrow molecular weight distribution copolymer designed to offer good environmental stress crack resistance and rigidity with high impact strength. This resin has excellent processability over a wide range of molding conditions. Typical uses are thin wall and dairy containers, promo drink cups, 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-65053N-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.953 g/cc	0.0344 lb/in ³	
Viscosity	32000 cP	32000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	46000 cP	46000 cP	Apparent Dynamic Viscosity
	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	
	54000 cP	54000 cP	Apparent Dynamic Viscosity
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	
Melt Flow	65 g/10 min	65 g/10 min	Melt flow ratio I10/I2 is 6.5.
	@Load 2.16 kg	@Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	10.3 MPa	1490 psi	
Tensile Strength, Yield	20.7 MPa	3000 psi	
Elongation at Break	200 %	200 %	
Modulus of Elasticity	0.669 GPa	97.0 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	1.01 GPa	146 ksi	
Izod Impact Resistance	3.74 J/cm ²	17.8 ft-lb/in ²	

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

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