

Dow DOWLEX™ IP-22 High Density Polyethylene

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

Material Notes:

DOWLEX® IP-22 resin is an improved processing high density polyethylene resin designed for excellent flow, high impact, and moderate stiffness. DOWLEX IP-22 resin balances peak molecular weight with a proprietary, optimized molecular weight distribution and a slightly lower density for impact and integrity. Typical applications are housewares, toys and general purpose applications. This material complies with FDA regulation 21 CFR 177.1520 c 3.1 for food contact applications. The regulation should be consulted for complete details. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-DOWLEX-IP-22-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.948 g/cc	0.0342 lb/in ³	
Viscosity	54000 cP	54000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	116000 cP	116000 cP	Apparent Dynamic Viscosity
	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	Apparent Dynamic Viscosity
	182000 cP	182000 cP	
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	Apparent Dynamic Viscosity
Melt Flow	23 g/10 min	23 g/10 min	Melt flow ratio I10/I2 is 8.5.
	@Load 2.16 kg	@Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	11.0 MPa	1600 psi	
Tensile Strength, Yield	19.0 MPa	2760 psi	
Elongation at Break	620 %	620 %	
Modulus of Elasticity	0.552 GPa	80.1 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.827 GPa	120 ksi	
Izod Impact Resistance	3.74 J/cm ²	17.8 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	119 °C	246 °F	

Thermal Properties	Metric	English	Comments
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