

Dow DOWLEX™ IP-40 High Density Polyethylene

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

Material Notes:

DOWLEX® IP-40 resin is an improved processing high density resin designed to offer excellent processability and impact resistance required for food container applications. This resin is designed by optimizing the breadth and shape of the molecular weight distribution and peak molecular weight. It has demonstrated excellent impact and processability over a wide range of molding conditions. 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-DOWLEX-IP-40-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	
Viscosity	39000 cP	39000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	80000 cP	80000 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	40 g/10 min	40 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	20.0 MPa	2900 psi	
Elongation at Break	250 %	250 %	
Modulus of Elasticity	0.614 GPa	89.1 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.910 GPa	132 ksi	
Izod Impact Resistance	2.70 J/cm ²	12.8 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	121 °C	250 °F	

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