

Dow DOWLEX™ IP-50 High Density Polyethylene

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

Material Notes:

DOWLEX® IP-50 resin is an improved processing high density polyethylene resin with controlled molecular weight distribution designed for thin wall food containers. This resin is recommended for flow length/ container wall thickness ratios up to 270, and it exhibits easy processing while maintaining excellent impact properties. 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-50-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	
Viscosity	33000 cP	33000 cP	Apparent Dynamic Viscosity
	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	
	40000 cP	40000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	95000 cP	95000 cP	Apparent Dynamic Viscosity
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	
Melt Flow	50 g/10 min	50 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	12.0 MPa	1740 psi	
Tensile Strength, Yield	19.0 MPa	2760 psi	
Elongation at Break	190 %	190 %	
Modulus of Elasticity	0.565 GPa	81.9 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.862 GPa	125 ksi	
Izod Impact Resistance	2.70 J/cm ²	12.8 ft-lb/in ²	

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