

Dow DOWLEX™ IP-10262 High Density Polyethylene

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

Material Notes:

DOWLEX® IP-10262 resin is an improved processing high density polyethylene resin with controlled molecular weight distribution for use in reusable case applications including, poultry, fast food, automotive, retail, fresh produce, beverage (soft drinks), food service and chemicals and plastics. This U.V. stabilized version of DOWLEX IP-10 resin offers excellent processability due to its easy flow at low temperatures. This material complies with FDA regulation 21 CFR c 3.1 for food contact applications. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-DOWLEX-IP-10262-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	
Viscosity	50000 cP	50000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	82000 cP	82000 cP	Apparent Dynamic Viscosity
	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	
	153000 cP	153000 cP	Apparent Dynamic Viscosity
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	
Melt Flow	9.0 g/10 min	9.0 g/10 min	Melt flow ratio I10/I2 is 8.
	@Load 2.16 kg	@Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	14.0 MPa	2030 psi	
Tensile Strength, Yield	21.0 MPa	3050 psi	
Elongation at Break	680 %	680 %	
Modulus of Elasticity	0.738 GPa	107 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	1.11 GPa	161 ksi	
Izod Impact Resistance	5.90 J/cm ²	28.1 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	127 °C	261 °F	

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