

Dow LDPE 993I Low Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Molded

Material Notes:

DOW LDPE 993I resin is a low slip, medium molecular weight distribution homopolymer designed to offer good gloss and rigidity with excellent flow characteristics. This resin has good processability over a wide range of molding conditions. This material complies with U.S.FDA regulation 21 CFR 177.1520(c) 2.1 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-LDPE-993I-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.925 g/cc	0.0334 lb/in ³	
Viscosity	28000 cP	28000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	50000 cP	50000 cP	
Melt Flow	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	Apparent Dynamic Viscosity
	76000 cP	76000 cP	
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	
Melt Flow	25 g/10 min	25 g/10 min	Melt flow ratio I10/I2 is 9.1.
	@Load 2.16 kg	@Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	9.90 MPa	1440 psi	
Tensile Strength, Yield	9.90 MPa	1440 psi	
Elongation at Break	180 %	180 %	
Modulus of Elasticity	0.186 GPa	27.0 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.291 GPa	42.2 ksi	
Izod Impact, Notched (ISO)	32.0 kJ/m ²	15.2 ft-lb/in ²	
	@Temperature -50.0 °C	@Temperature -58.0 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	93.0 °C	199 °F	

Thermal Properties

Metric

English

Comments

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