

Dow LDPE 640IM Low Density Polyethylene

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

Material Notes:

DOW LDPE 640IM resin is a broad molecular weight distribution homopolymer designed to offer excellent impact strength and stress crack resistance with moderate stiffness for general purpose, and caps/ closures applications. It 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-640IM-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 lb/in ³	
Viscosity	56000 cP	56000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	99000 cP	99000 cP	Apparent Dynamic Viscosity
	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	
	265000 cP	265000 cP	Apparent Dynamic Viscosity
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	
Melt Flow	2.0 g/10 min	2.0 g/10 min	
	@Load 2.16 kg	@Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	10.8 MPa	1570 psi	
Tensile Strength, Yield	9.50 MPa	1380 psi	
Elongation at Break	240 %	240 %	
Modulus of Elasticity	0.164 GPa	23.8 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.274 GPa	39.7 ksi	
Izod Impact, Notched (ISO)	69.4 kJ/m ²	33.0 ft-lb/in ²	
	@Temperature -50.0 °C	@Temperature -58.0 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	92.0 °C	198 °F	

Thermal Properties	Metric	English	Comments
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