

Dow LDPE 722M Low Density Polyethylene

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

Material Notes:

DOW LDPE 722M resin is a broad molecular weight distribution homopolymer designed to offer good impact strength and stress crack resistance with excellent flexibility. Typical applications include caps/closures. 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-722M-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.916 g/cc	0.0331 lb/in ³	
Viscosity	34000 cP	34000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	76000 cP	76000 cP	
Melt Flow	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	Apparent Dynamic Viscosity
	130000 cP	130000 cP	
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	
Melt Flow	8.0 g/10 min	8.0 g/10 min	Melt flow ratio I10/I2 is 9.3.
	@Load 2.16 kg	@Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	11.0 MPa	1600 psi	
Tensile Strength, Yield	8.90 MPa	1290 psi	
Elongation at Break	130 %	130 %	
Modulus of Elasticity	0.139 GPa	20.2 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.226 GPa	32.8 ksi	
Izod Impact, Notched (ISO)	28.0 kJ/m ²	13.3 ft-lb/in ²	
	@Temperature -50.0 °C	@Temperature -58.0 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	91.0 °C	196 °F	

Thermal Properties

Metric

English

Comments

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