

Dow LDPE 510I Low Density Polyethylene

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

Material Notes:

DOW LDPE 510I resin is a broad molecular weight distribution homopolymer designed to offer excellent impact strength and stress crack resistance with moderate flexibility, for caps/closures, etc. 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-510I-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in ³	
Viscosity	76000 cP	76000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	176000 cP	176000 cP	
Melt Flow	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	Apparent Dynamic Viscosity
	305000 cP	305000 cP	
	@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	13.1 MPa	1900 psi	
Tensile Strength, Yield	10.7 MPa	1550 psi	
Elongation at Break	480 %	480 %	
Modulus of Elasticity	0.193 GPa	28.0 ksi	Molded Sample 2% Secant Modulus
Izod Impact, Notched (ISO)	69.4 kJ/m ²	33.0 ft-lb/in ²	
	@Temperature -50.0 °C	@Temperature -58.0 °F	
Tensile Impact Strength	315 kJ/m ²	150 ft-lb/in ²	

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

Thermal Properties

Metric

English

Comments

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