

Dow LDPE 959I Low Density Polyethylene

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

Material Notes:

DOW LDPE 959I resin is a medium molecular weight distribution homo polymer designed to offer excellent clarity and flexibility with low warpage for lids. 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-959I-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	
Viscosity	21000 cP	21000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	32000 cP	32000 cP	Apparent Dynamic Viscosity
	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	
	40000 cP	40000 cP	Apparent Dynamic Viscosity
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	
Melt Flow	55 g/10 min	55 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	8.30 MPa	1200 psi	
Tensile Strength, Yield	9.00 MPa	1310 psi	
Elongation at Break	160 %	160 %	
Modulus of Elasticity	0.155 GPa	22.5 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.248 GPa	36.0 ksi	
Izod Impact, Notched (ISO)	29.0 kJ/m ²	13.8 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
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