

Dow LDPE 5004IM Low Density Polyethylene

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

Material Notes:

DOW LDPE 5004IM resin is a broad molecular weight distribution homopolymer designed to offer good impact strength and rigidity with high ESCR. 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-5004IM-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	
Viscosity	45000 cP	45000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	94000 cP	94000 cP	Apparent Dynamic Viscosity
	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	
	170000 cP	170000 cP	Apparent Dynamic Viscosity
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	
Melt Flow	4.0 g/10 min	4.0 g/10 min	Melt flow ratio I10/I2 is 11.5.
	@Load 2.16 kg	@Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	9.60 MPa	1390 psi	
Tensile Strength, Yield	13.1 MPa	1900 psi	
Elongation at Break	270 %	270 %	
Modulus of Elasticity	0.248 GPa	36.0 ksi	Molded Sample 2% Secant Modulus
Izod Impact, Notched (ISO)	48.0 kJ/m ²	22.8 ft-lb/in ²	
	@Temperature -50.0 °C	@Temperature -58.0 °F	
Tensile Impact Strength	200 kJ/m ²	95.2 ft-lb/in ²	

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