

Dow DOWLEX™ 2505 Linear Low Density Polyethylene, Narrow MW Distribution

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Injection Molded

Material Notes:

DOWLEX® 2505 Polyethylene resin is a narrow molecular weight distribution copolymer designed to offer excellent environmental stress crack resistance and tear strength with good rigidity. It has excellent processability over a wide range of molding conditions. It complies with FDA regulation 21 CFR 177.1520 (c) 3.1(a) 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-DOWLEX-2505-Linear-Low-Density-Polyethylene-Narrow-MW-Distribution.php

Physical Properties	Metric	English	Comments
Density	0.926 g/cc	0.0335 lb/in ³	
Viscosity	22000 cP	22000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	33000 cP	33000 cP	
	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	Apparent Dynamic Viscosity
	39000 cP	39000 cP	Apparent Dynamic Viscosity
Melt Flow	85 g/10 min	85 g/10 min	Melt flow ratio I10/I2 is 6.4.
	@Load 2.16 kg	@Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	8.55 MPa	1240 psi	
Tensile Strength, Yield	9.60 MPa	1390 psi	
Elongation at Break	640 %	640 %	
Modulus of Elasticity	0.219 GPa	31.8 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.356 GPa	51.6 ksi	
Izod Impact, Notched (ISO)	39.0 kJ/m ²	18.6 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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