

Dow DOWLEX™ 2503 Linear Low Density Polyethylene, Narrow MW Distribution

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

Material Notes:

DOWLEX® 2503 Polyethylene resin is a narrow molecular weight distribution copolymer designed to offer excellent environmental stress crack resistance and tear strength with excellent rigidity. It has excellent processability over a wide range of molding conditions. This material complies with U.S. FDA Regulation 21 CFR 177.1520 c 3.1(a) for food packaging 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-2503-Linear-Low-Density-Polyethylene-Narrow-MW-Distribution.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 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	
	29000 cP	29000 cP	
	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	Apparent Dynamic Viscosity
	31000 cP	31000 cP	Apparent Dynamic Viscosity
Melt Flow	105 g/10 min	105 g/10 min	Melt flow ratio I10/I2 is 6.5.
	@Load 2.16 kg	@Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	8.20 MPa	1190 psi	
Tensile Strength, Yield	10.6 MPa	1540 psi	
Elongation at Break	450 %	450 %	
Modulus of Elasticity	0.273 GPa	39.6 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.503 GPa	73.0 ksi	
Izod Impact, Notched (ISO)	23.0 kJ/m ²	10.9 ft-lb/in ²	
	@Temperature -50.0 °C	@Temperature -58.0 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	100 °C	212 °F	

Thermal Properties

Metric

English

Comments

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