

Dow DOWLEX™ 2535 Linear Low Density Polyethylene, Narrow MW Distribution

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

Material Notes:

DOWLEX® 2535 Polyethylene resin is a narrow molecular weight distribution copolymer designed to offer excellent impact strength and stress crack resistance with good flexibility. It has good 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-2535-Linear-Low-Density-Polyethylene-Narrow-MW-Distribution.php

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in ³	
Viscosity	82000 cP	82000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	180000 cP	180000 cP	Apparent Dynamic Viscosity
	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	
	300000 cP	300000 cP	Apparent Dynamic Viscosity
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	
Melt Flow	6.0 g/10 min	6.0 g/10 min	Melt flow ratio I10/I2 is 7.5.
	@Load 2.16 kg	@Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	12.7 MPa	1840 psi	
Tensile Strength, Yield	8.10 MPa	1170 psi	
Elongation at Break	560 %	560 %	
Modulus of Elasticity	0.174 GPa	25.2 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.327 GPa	47.4 ksi	
Izod Impact, Notched (ISO)	97.0 kJ/m ²	46.2 ft-lb/in ²	
	@Temperature -50.0 °C	@Temperature -58.0 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	94.0 °C	201 °F	

Thermal Properties	Metric	English	Comments
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