

Dow DOWLEX™ IP-2580 Linear Low Density Polyethylene

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

Material Notes:

Next Generation DOWLEX® IP-2580 resin is an improved processing linear low density polyethylene resin designed for excellent flow and stiffness with freezer grade impact properties. DOWLEX IP-2580 resin balances peak molecular weight with patented molecular weight distribution and a slightly higher density for better lid stiffness and handling. Produced under U.S. patent number 5,015,511 this resin provides the processability, stress crack resistance, and rigidity needed for down gauging a variety of lids. This material complies with 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-IP-2580-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.933 g/cc	0.0337 lb/in ³	
Viscosity	34000 cP	34000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	54000 cP	54000 cP	
	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	Apparent Dynamic Viscosity
	77000 cP	77000 cP	Apparent Dynamic Viscosity
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	Apparent Dynamic Viscosity
Melt Flow	80 g/10 min	80 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	8.75 MPa	1270 psi	
Tensile Strength, Yield	11.8 MPa	1710 psi	
Elongation at Break	500 %	500 %	
Modulus of Elasticity	0.327 GPa	47.4 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.553 GPa	80.2 ksi	
Izod Impact, Notched (ISO)	32.0 kJ/m ²	15.2 ft-lb/in ²	
	@Temperature -50.0 °C	@Temperature -58.0 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	101 °C	214 °F	

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