

Dow DOWLEX™ 2553 Linear Low Density Polyethylene, Narrow MW Distribution

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Film Grade

Material Notes:

DOWLEX® 2553 Polyethylene resin is a narrow molecular weight distribution copolymer designed to offer good environmental stress crack resistance and impact strength with excellent stiffness for housewares, containers, and large toys. It has good processability over a wide range of extrusion coating conditions. This material complies with U.S. FDA Regulation 21 CFR 177.1520 (c) 3.2 (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-2553-Linear-Low-Density-Polyethylene-Narrow-MW-Distribution.php

Physical Properties	Metric	English	Comments
Density	0.935 g/cc	0.0338 lb/in ³	
Viscosity	37000 cP	37000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	64000 cP	64000 cP	Apparent Dynamic Viscosity
	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	
	79000 cP	79000 cP	Apparent Dynamic Viscosity
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	
Melt Flow	40 g/10 min	40 g/10 min	Melt flow ratio I10/I2 is 6.8.
	@Load 2.16 kg	@Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	9.80 MPa	1420 psi	
Tensile Strength, Yield	12.4 MPa	1800 psi	
Elongation at Break	800 %	800 %	
Modulus of Elasticity	0.343 GPa	49.7 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.659 GPa	95.6 ksi	
Izod Impact, Notched (ISO)	56.0 kJ/m ²	26.6 ft-lb/in ²	
	@Temperature -50.0 °C	@Temperature -58.0 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	97.0 °C	207 °F	

Thermal Properties	Metric	English	Comments
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