

Dow DOWLEX™ 2503.10 Linear Low Density Polyethylene, Narrow MW Distribution

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

Material Notes:

DOWLEX® 2503.10 Polyethylene resin is a narrow molecular weight distribution copolymer designed as a superior processing resin. For very thin wall higher cavitation molding, this grade often is a preferred choice. It offers good environmental stress crack resistance and tear strength with excellent rigidity. It complies with U.S. 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-250310-Linear-Low-Density-Polyethylene-Narrow-MW-Distribution.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in ³	
Viscosity	27000 cP	27000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	44000 cP	44000 cP	
Melt Flow	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	Apparent Dynamic Viscosity
	53000 cP	53000 cP	
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	
Melt Flow	125 g/10 min	125 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	8.30 MPa	1200 psi	
Tensile Strength, Yield	10.6 MPa	1540 psi	
Elongation at Break	400 %	400 %	
Modulus of Elasticity	0.269 GPa	39.0 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.438 GPa	63.5 ksi	
Izod Impact, Notched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	
	@Temperature -50.0 °C	@Temperature -58.0 °F	

Thermal Properties	Metric	English	Comments
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Thermal Properties **nt**

Metric

English

Comments

Contact Songhan Plastic Technology Co.,Ltd.

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