

## Dow LDPE 779I Low Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Molded

### Material Notes:

DOW LDPE 779I resin is a broad molecular weight distribution homopolymer designed to offer good impact strength and stress crack resistance with excellent rigidity. Typical applications include caps/closures, etc. This resin has good processability over a wide range of molding conditions. This material complies with U.S.FDA regulation 21 CFR 177.1520(c) 2.1 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-LDPE-779I-Low-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_Dow-LDPE-779I-Low-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in <sup>3</sup>	
Viscosity	40000 cP	40000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	93000 cP	93000 cP	
Melt Flow	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	Apparent Dynamic Viscosity
	161000 cP	161000 cP	
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	
Melt Flow	7.0 g/10 min	7.0 g/10 min	Melt flow ratio I10/I2 is 9.1.
	@Load 2.16 kg	@Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	11.4 MPa	1650 psi	
Tensile Strength, Yield	10.3 MPa	1490 psi	
Elongation at Break	110 %	110 %	
Modulus of Elasticity	0.185 GPa	26.8 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.288 GPa	41.8 ksi	
Izod Impact, Notched (ISO)	24.0 kJ/m <sup>2</sup>	11.4 ft-lb/in <sup>2</sup>	
	@Temperature -50.0 °C	@Temperature -58.0 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	93.0 °C	199 °F	

Thermal Properties

Metric

English

Comments

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