

## Dow HDPE 12450N High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Impact Grade

### Material Notes:

DOW HDPE 12450N resin is a narrow molecular weight distribution copolymer designed to offer excellent impact strength and toughness with moderate stiffness. This resin has good processability over a wide range of molding conditions. Typical applications are structural foam, tote boxes, and industrial containers. It complies with FDA regulation 21 CFR 177.1520 (c) 3.2(a) for food contact applications. Data provided by Dow Chemical.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dow-HDPE-12450N-High-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_Dow-HDPE-12450N-High-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in <sup>3</sup>	
Viscosity	75000 cP	75000 cP	Apparent Dynamic Viscosity
	@Shear Rate 5000 1/s, Temperature 190 °C	@Shear Rate 5000 1/s, Temperature 374 °F	
	160000 cP	160000 cP	Apparent Dynamic Viscosity
	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	
	250000 cP	250000 cP	Apparent Dynamic Viscosity
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	
Melt Flow	12 g/10 min	12 g/10 min	
	@Load 2.16 kg	@Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	18.6 MPa	2700 psi	
Tensile Strength, Yield	18.6 MPa	2700 psi	
Elongation at Break	650 %	650 %	
Modulus of Elasticity	0.559 GPa	81.1 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.827 GPa	120 ksi	
Izod Impact Resistance	7.47 J/cm <sup>2</sup>	35.6 ft-lb/in <sup>2</sup>	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	123 °C	253 °F	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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