

Dow DOWLEX™ IP-60 High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

Material Notes:

DOWLEX® IP-60 resin is an improved processing high density polyethylene resin designed to offer excellent processability, good impact and top load strength required in thin wall injection molding. This resin is designed by optimization of the breadth, shape of the molecular weight distribution and peak molecular weight. It has demonstrated excellent processability over a wide range of molding conditions and in high cavitation molds. Typical applications are thin wall and food containers, promo drink cups, etc. It complies with FDA regulation 21 CFR 177.1520 (c) 3.1 for food contact applications. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-DOWLEX-IP-60-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	
Melt Flow	60 g/10 min @Load 2.16 kg	60 g/10 min @Load 4.76 lb	Melt flow ratio I10/I2 is 8.5.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	10.0 MPa	1450 psi	
Tensile Strength, Yield	21.0 MPa	3050 psi	
Elongation at Break	225 %	225 %	
Modulus of Elasticity	0.641 GPa	93.0 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.869 GPa	126 ksi	
Izod Impact Resistance	1.60 J/cm ²	7.61 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	122 °C	252 °F	

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