

Dow DOWLEX™ IP-90 High Density Polyethylene

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

Material Notes:

Next Generation DOWLEX® IP-90 resin is a high flow improved processing high density polyethylene resin designed for ultra-thin wall injection molded containers and drink cups. This resin has been molded into containers exceeding flow length/container wall thickness ratios of 350, while demonstrating good impact and load properties. This material complies with 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-IP-90-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	
Melt Flow	90 g/10 min @Load 2.16 kg	90 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	150 %	150 %	
Modulus of Elasticity	0.621 GPa	90.1 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.910 GPa	132 ksi	
Izod Impact Resistance	1.10 J/cm ²	5.24 ft-lb/in ²	

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

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