

Dow DOWLEX™ IP-41 High Density Polyethylene

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

Material Notes:

DOWLEX® IP-41 resin is an improved processing high density polyethylene resin designed to offer excellent processability and rigidity required for food containers, overcaps, and other general purpose applications. DOWLEX IP-41 resin balances peak molecular weight with a proprietary, optimized molecular weight distribution and a slightly higher density for excellent rigidity. This resin has demonstrated excellent processability over a wide range of molding conditions. This material 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-DOWLEX-IP-41-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.956 g/cc	0.0345 lb/in ³	
Melt Flow	40 g/10 min @Load 2.16 kg	40 g/10 min @Load 4.76 lb	Melt flow ratio I10/I2 is 8.5.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	11.0 MPa	1600 psi	
Tensile Strength, Yield	23.0 MPa	3340 psi	
Elongation at Break	440 %	440 %	
Modulus of Elasticity	0.696 GPa	101 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	1.06 GPa	154 ksi	
Izod Impact Resistance	2.67 J/cm ²	12.7 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	124 °C	255 °F	

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