DOWLEX™ IP 40

Polyethylene Resin

The Dow Chemical Company

Message:

High Density Polyethylene Resin (HDPE)
For food container applications
Excellent processability and impact resistance
Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a
Complies with Canadian HPFB No Objection (With Limitations)
Consult the regulations for complete details.
DOWLEX™ IP 40 Polyethyelne Resin is an Improved Processing high density resin designed to offer the excellent processing and impact resistance required for food container applications. This resin was designed by optimizing the breadth, shape and peak molecular weight, and has demonstrated both excellent impact and processability over a wide range of conditions.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a HPFB (Canada) No Objection 2		
Forms	Particle		
Processing Method	Injection molding		
Multi-Point Data	Viscosity vs. Shear Rate (ASTM D3835)		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.952	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	40	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	56		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield	25.5	MPa	ASTM D638
Fracture	26.9	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	3.0	%	ASTM D638
Fracture	10	%	ASTM D638
Flexural Modulus - 2% Secant	1000	MPa	ASTM D790B
Impact	**Nominal Value**	**Unit**	**Test Method**
Tensile Impact Strength [1]	84.1	kJ/m²	ASTM D1822
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	68.9	°C	ASTM D648
Brittleness Temperature	< -76.1	°C	ASTM D746
Vicat Softening Temperature	124	°C	ASTM D1525
Melting Temperature (DSC)	128	°C	Internal method

Peak Crystallization Temperature (DSC)	117	°C	Internal method

Additional Information
根据 ASTM D 4976 进行基板模制和测试.

NOTE	
1.	Type s

Recommended distributors for this material

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