

DOWLEX™ IP 41

Polyethylene Resin

The Dow Chemical Company

Message:

High Density Polyethylene Resin (HDPE)

For food containers, overcaps and general purpose applications

ESCR processability and rigidity

Complies with:

U.S. FDA 21 CFR 177.1520 (c) 3.2a

U.S. FDA-DMF

Canadian HPFB No Objection (With Limitations)

Consult the regulations for complete details.

DOWLEX™ IP 41 Polyethylene Resin is an Improved Processing high density resin designed to offer excellent processability and rigidity 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 processing conditions.

General Information			
Agency Ratings	DMF not rated		
	FDA 21 CFR 177.1520(c) 3.2a		
	HPFB (Canada) No Objection 2		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.956	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	42	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	58		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	29.0	MPa	ASTM D638
Fracture	29.6	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	5.0	%	ASTM D638
Fracture	10	%	ASTM D638
Flexural Modulus - 2% Secant	1120	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength ¹	63.0	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	65.0	°C	ASTM D648
Brittleness Temperature	-20.0	°C	ASTM D746

Vicat Softening Temperature	126	°C	ASTM D1525
Melting Temperature (DSC)	129	°C	Internal method
Peak Crystallization Temperature (DSC)	118	°C	Internal method

Additional Information

根据 ASTM D 4976 进行基板模制和测试.

NOTE

1. Type s

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