

DOWLEX™ IP 10

Polyethylene Resin

The Dow Chemical Company

Message:

High Density Polyethylene Resin (HDPE)

For reusable cases

Excellent processability, easier flow

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

Complies with Canadian HPFB No Objection (With Limitations)

Complies with EU, No 10/2011

Consult the regulations for complete details.

DOWLEX™ IP 10 Polyethylene Resin is an Improved Processing high density resin specifically designed for reusable case applications including: poultry, fast food, automotive, retail, fresh produce, beverages, food service and chemicals, including plastics. Excellent processability is achieved with this resin due to its easy flow at low temperatures.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
	HPFB (Canada) No Objection 2		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	8.00	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	55		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	29.0	MPa	ASTM D638
Fracture	18.6	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	7.0	%	ASTM D638
Fracture	1200	%	ASTM D638
Flexural Modulus - 2% Secant	1160	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength ¹	105	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	81.1	°C	ASTM D648

Brittleness Temperature	< -101	°C	ASTM D746
Vicat Softening Temperature	130	°C	ASTM D1525
Melting Temperature (DSC)	132	°C	Internal method
Peak Crystallization Temperature (DSC)	119	°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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