



DOWLEX™ IP 20 Polyethylene Resin

Overview

DOWLEX IP 20 Polyethylene Resin is a Linear Low Density Polyethylene produced at Dow and it is intended for injection molding applications. This resin presents superior properties compared to a Polyethylene of similar melt index and density. Its main characteristics are: high stiffness, good resistance at low temperatures, exceptional gloss and reduced warp in large pieces

Main Applications:

- Injection Molded parts
- Food ware and house ware
- Toys
- Boxes and trays
- Caps and lids
- Carrier resin for compounding (masterbatches)

Complies with:

- U.S. FDA 21 CFR 177.1520(c)3.2a
- Europe Commission Regulation (EU) No 10/2011
- Consult the regulations for complete details.

Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.926 g/cm ³	0.926 g/cm ³	ASTM D792
Base Density ¹	0.926 g/cm ³	0.926 g/cm ³	Dow Method
Melt Index (190°C/2.16 kg)	20 g/10 min	20 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance 122°F (50°C), 100% Igepal, F50	8.00 hr	8.00 hr	ASTM D1693
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield	2180 psi	15.0 MPa	
Break	1310 psi	9.00 MPa	
Tensile Elongation (Break)	130 %	130 %	ASTM D638
Flexural Modulus	76600 psi	528 MPa	ASTM D790
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	63	63	ASTM D2240
Injection	Nominal Value (English)	Nominal Value (SI)	
Processing (Melt) Temp	374 to 446 °F	190 to 230 °C	
Mold Temperature	41 to 86 °F	5 to 30 °C	

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ Base density is estimated using the assumption that every 1000 ppm of antiblock in the finished product raises the density of the polymer by 0.0006 g/cm³. Base density is the estimated density of the polymer if it did not contain any antiblock.

