Experimental XZ 89609.00
High Density Polyethylene Resin

Overview

XZ 89609.00 Experimental Polyethylene Resin is an UV stabilized resin with very narrow molecular weight distribution. It was developed to impart excellent stiffness, combined with good impact strength to injection moulded parts, at minimum warpage.

Note: XZ 89609.00 Experimental Polyethylene Resin should comply with FDA regulation 177.1520 and with most European food contact regulations when used unmodified and processed according to good manufacturing practices for food contact applications. Please, contact your nearest Dow office for food contact compliance statements. The purchaser remains responsible for determining whether the use complies with all relevant regulations.

Applications:

- Cases and boxes for industrial parts.
- Farm produce and beverage crates.
- Pails and buckets.

Additive

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

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.963	g/cm³	0.963	g/cm³	ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	8.0	g/10 min	8.0	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (ESCR) [1]					ASTM D1693
10% Igepal, Compression Molded	3.00	hr	3.00	hr	
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Strength [1]					ISO 527-2
Yield, Compression Molded	4210	psi	29.0	MPa	
Break, Compression Molded	3190	psi	22.0	MPa	
Tensile Elongation [1]					ISO 527-2
Break, Compression Molded	1200	%	1200	%	
Flexural Modulus - 2% Secant [2] (Compression Molded)	> 145000	psi	> 1000	MPa	ISO 527-2
Impact	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Charpy Notched Impact Strength [2]					ISO 179/1eA
Compression Molded	3.0	ft·lb/in²	6.3	kJ/m²	
Hardness	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Shore Hardness (Shore D, Compression Molded)	66		66		ASTM D2240
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Vicat Softening Temperature	264	°F	129	°C	ASTM D1525

Notes

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

[1] Plates of 2 mm thickness

[2] Plates of 4 mm thickness

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