

Technical Data Sheet

Hifax CA 7271 A



Catalloy

Product Description

Hifax CA 7271 A is a reactor TPO (thermoplastic polyolefin) manufactured using the LyondellBasell's proprietary *Catalloy* process technology.

It is designed for injection molding controlled shrinkage applications (e.g. bumpers). Hifax CA 7271 A exhibits high melt flow rate with good impact/stiffness balance and reduced shrinkage.

The grade is available in natural pellet form.

Regulatory Status

For regulatory compliance information, see Hifax CA 7271 A [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; North America; South & Central America
Application	Automotive Parts; Body Panels; Bumpers; Exterior Automotive Applications; Exterior Trim; Polymer Modifier
Market	Automotive
Processing Method	Compounding; Injection Molding
Attribute	Good Adhesion; Good Dimensional Stability; Good Processability; Good Stiffness; High Impact Resistance; Low Gloss; Paintable

Typical Properties	Nominal		Test Method
	Value	Units	
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	11	g/10 min	ISO 1133-1
Density, (23 °C, Method A)	0.89	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	800	MPa	ISO 178
Tensile Stress at Break	16	MPa	ISO 527-1, -2
Tensile Stress at Yield	15	MPa	ISO 527-1, -2
Tensile Strain at Break	600	%	ISO 527-1, -2
Tensile Strain at Yield	15	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C)	60	kJ/m ²	ISO 179
(-20 °C)	>10	kJ/m ²	ISO 179
(-40 °C)	6	kJ/m ²	ISO 179
Hardness			
Shore Hardness, (Shore D)	48		ISO 868
Thermal			
Vicat Softening Temperature, (A/50 N)	100	°C	ISO 306

Heat Deflection Temperature B, (0.45 MPa, Unannealed)	65 °C	ISO 75B-1, -2
DSC Melting Point	163 °C	DSC

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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- (ii) applications involving permanent implantation into the body;
- (iii) life-sustaining medical applications.

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