

Technical Data Sheet

Hifax 7430 XEP

Catalloy



Product Description

Hifax 7430 XEP is a reactor TPO (thermoplastic polyolefin) manufactured using LyondellBasell's proprietary *Catalloy* process technology. It is a high melt flow, medium-high flexural modulus, highly crystalline copolymer with good balance of impact and stiffness. It is primarily used in interior trim applications requiring low temperature high speed impact performance. It is also used as a component in compounded materials for automotive and industrial applications. The grade is available in natural pellet form.

Regulatory Status

For regulatory compliance information, see Hifax 7430 XEP [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America; South & Central America
Application	Exterior Automotive Applications; Interior Automotive Applications
Market	Automotive; Compounding
Processing Method	Compounding; Injection Molding
Attribute	Good Stiffness; Low Temperature Impact Resistance

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	18.5	g/10 min	ISO 1133-1
Density, (23 °C, Method A)	0.89	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	1200	MPa	ISO 178
Tensile Stress at Break	14	MPa	ISO 527-1, -2
Tensile Stress at Yield	20	MPa	ISO 527-1, -2
Tensile Strain at Break	32	%	ISO 527-1, -2
Tensile Strain at Yield	5	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C)	14	kJ/m ²	ISO 179
Note: Failure Mode - Complete Break			
(-20 °C)	6.7	kJ/m ²	ISO 179
Note: Failure Mode - Complete Break			
(-40 °C)	2.8	kJ/m ²	ISO 179
Note: Failure Mode - Complete Break			

Multi-axial Impact Strength		
(23° C, 2.2 m/s, 3.2 mm plaque)	18 J	ASTM D3763
Note: Failure Mode - Ductile		
(-40°C, 2.2 m/s, 3.2 mm plaque)	28 J	ASTM D3763
Note: Failure Mode - Ductile		
Hardness		
Shore Hardness, (Shore D, 15 sec)	55	ISO 868
Thermal		
Vicat Softening Temperature, (A50)	131 °C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	90 °C	ISO 75B-1, -2
DSC Melting Point	163 °C	ISO 11357-3
Optical		
Gloss, (60°, 45 mil)	49	ASTM D2457
Additional Information		
Mold Shrinkage		ISO 294-4
Please contact LyondellBasell for shrinkage information.		

Notes

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

Automotive Specifications

- ▶ FCA MS-DC256A CPN 4131

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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Users should review the applicable Safety Data Sheet before handling the product.

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- (i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
- (ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
- (iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
- (iv) tobacco related products and applications, electronic cigarettes and similar devices.
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- (ii) applications involving permanent implantation into the body;
- (iii) life-sustaining medical applications.

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