

Hifax 7430 XEP

Polyolefin
LyondellBasell Industries

Message:

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.

For regulatory compliance information see Hifax 7430 XEP Product Stewardship Bulletin (PSB).

General Information			
Features	Copolymer		
	Good Impact Resistance		
	Good Stiffness		
	High Flow		
	Highly Crystalline		
	Low Temperature Impact Resistance		
Uses	Automotive Applications		
	Automotive Interior Trim		
	Industrial Applications		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.890	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	19	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	56		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/50
Yield, 23°C	20.0	MPa	
Break, 23°C	14.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 23°C	5.0	%	
Break, 23°C	32	%	
Flexural Modulus - Chord ¹ (23°C)	1300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A

-40°C, Complete Break	5.3	kJ/m ²	
23°C, Complete Break	11	kJ/m ²	
Instrumented Dart Impact ²			ASTM D3763
-40°C, 3.20 mm, Total Energy, Ductile Failure	28.0	J	
23°C, 3.20 mm, Peak Energy, Ductile Failure	18.0	J	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	85.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	°C	ISO 75-2/A
Vicat Softening Temperature	131	°C	ISO 306/A50
Melting Temperature	161	°C	ISO 11357-3
NOTE			
1.	2.0 mm/min		
2.	2.20 m/sec		

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