



Hifax 7430 XEP

LyondellBasell Industries - Polyolefin

Tuesday, November 5, 2019

General Information

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.

General

Material Status	<ul style="list-style-type: none"> Commercial: Active 		
Availability	<ul style="list-style-type: none"> Latin America 	<ul style="list-style-type: none"> North America 	
Features	<ul style="list-style-type: none"> Copolymer Good Impact Resistance 	<ul style="list-style-type: none"> Good Stiffness High Flow 	<ul style="list-style-type: none"> Highly Crystalline Low Temperature Impact Resistance
Uses	<ul style="list-style-type: none"> Automotive Applications Automotive Exterior Parts 	<ul style="list-style-type: none"> Automotive Interior Parts Automotive Interior Trim 	<ul style="list-style-type: none"> Compounding Industrial Applications
Automotive Specifications	<ul style="list-style-type: none"> CHRYSLER MS-DC-256 Type A CPN4131 		
Appearance	<ul style="list-style-type: none"> Natural Color 		
Forms	<ul style="list-style-type: none"> Pellets 		
Processing Method	<ul style="list-style-type: none"> Compounding 	<ul style="list-style-type: none"> Injection Molding 	

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.890	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	19	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	2900	psi	ISO 527-2
Tensile Stress (Break)	2030	psi	ISO 527-2
Tensile Strain (Yield)	5.0	%	ISO 527-2
Tensile Strain (Break)	32	%	ISO 527-2
Flexural Modulus	174000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°F, Complete Break	1.3	ft·lb/in ²	
-4°F, Complete Break	3.2	ft·lb/in ²	
73°F, Complete Break	6.7	ft·lb/in ²	
Instrumented Dart Impact ²			ASTM D3763
-40°F, 0.126 in, Ductile Failure	248	in·lb	
73°F, 0.126 in, Ductile Failure	159	in·lb	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	55		ISO 868
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	194	°F	ISO 75-2/B
Vicat Softening Temperature	268	°F	ISO 306/A50
Melting Temperature	325	°F	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 45.0 mil)	49		ASTM D2457

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Notes

¹ Typical properties: these are not to be construed as specifications.

² 7.22 ft/sec