Hifax 7430 XEP

Advanced Polyolefin

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

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	North America, Latin America
Processing Methods	Injection Molding
Features	Low Temperature Impact Resistance, Good Stiffness
Typical Customer Applications	Automotive Parts, Interior Applications

Typical Properties	Method	Value	Unit
Physical			
Density (Method A)	ISO 1183	0.89	g/cm³
Melt flow rate (MFR) (230 °C/ 2.16 kg)	ISO 1133	18.5	g/10 min
Mechanical			
Tensile Stress at Break (23 °C, 50 mm/min)	ISO 527-1, -2	14	MPa
Tensile Stress at Yield (23 °C, 50 mm/min)	ISO 527-1, -2	20	MPa
Tensile Strain at Break (23 °C, 50 mm/min)	ISO 527-1, -2	32	%
Tensile Strain at Yield (23 °C, 50 mm/min)	ISO 527-1, -2	5	%
Flexural modulus (23 °C, 2 mm/min, Chord)	ISO 178	1300	MPa
Impact			
Notched izod impact strength	ISO 180		
(23 °C, Type 1, Notch A)		11	kJ/m²
Note: Failure Mode: Complete			
(- 40°C, Type 1, Notch A)		5.3	kJ/m²
Note: Failure Mode: Complete			
Multiaxial Impact Strength	ASTM D3763		
(23 °C, 2.2 m/s)		18	J
Note: Energy @ Max Load on 3.2 mm plq Failure Mode: Ductile			
(-40 °C, 2.2 m/s)		28	J
Note: Energy @ Max Load on 3.2 mm plq Failure Mode: Ductile			
Hardness			
Shore hardness D	ISO 868/ASTM D 2240	56	

Note: 15 seconds

Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	85	°C
Heat deflection temperature A (1.80 MPa) Unannealed	ISO 75A-1, -2	50	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	131	°C
Melting temperature	DSC	161	°C
Note: ISO 11357-3			

Additional Information			
Mold shrinkage	ISO 294-4		
Note: Please contact Equistar for shrinkage recommendations			

Additional Properties

AUTOMOTIVE SPECIFICATIONS:
Chrysler MS-DC256A CPN 4131

Notes

Typical properties; not to be construed as specifications.