



Hifax CA 12 A

Advanced Polyolefin

Product Description

Hifax CA 12 A is a reactor TPO (thermoplastic polyolefin) manufactured using the LyondellBasell's proprietary *Catalloy* process technology.

It is suitable for industrial applications where a combination of good processability and excellent softness is required. Hifax CA 12 A exhibits low stiffness, low hardness and good impact resistance. The material shows high compatibility to other polyolefins as well as to other soft plastics. Hifax CA 12 A is cross linkable.

The grade is available in natural pellet form.

For regulatory compliance information see Hifax CA 12 A Regulatory Affairs Product Stewardship Information/Certification Data Sheet (RAPIDS), which can be found on www.polymers.lyondellbasell.com.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Extrusion Compounding, Extrusion Flat-die, Extrusion Wire, Calendering, Extrusion Blow Molding, Extrusion Pipe Sheet and Semi Finished Products
Features	Good Chemical Resistance, High ESCR (Environmental Stress Cracking Resistance), Good Flexibility, Low Hardness, Medium Heat Resistance, Good Impact Resistance, Low Temperature Impact Resistance, Non Toxic
Typical Customer Applications	Bottles for Industrial Use, Exterior Applications, Instrument Panels, Polymer modifier, TPO Foils and Skins, Wire & Cable

Typical Properties	Method	Value	Unit
Physical			
Density (Method A)	ISO 1183	0.88	g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	0.8	g/10 min
Mechanical			
Tensile Stress at Yield	ISO 527-1, -2	9	MPa
Tensile Strain at Break	ISO 527-1, -2	500	%
Flexural modulus	ISO 178	330	MPa
Impact			
Notched izod impact strength	ISO 180		
(23 °C, Type 1, Notch A)		No Break	
(- 20 °C, Type 1, Notch A)		70	kJ/m ²
Hardness			
Shore hardness (Shore D)	ISO 868	36	
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	50	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	78	°C
Melting temperature	DSC	163	°C
<i>Note: ISO 11357-3</i>			

Notes

Typical properties; not to be construed as specifications.