



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
Note: ISO 11357-3			

Notes

Typical properties; not to be construed as specifications.