

## 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](http://www.polymers.lyondellbasell.com).

#### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method used</b>	ISO
<b>Processing Methods</b>	Extrusion Compounding, Extrusion Flat-die, Extrusion Wire, Calendering, Extrusion Blow Molding, Extrusion Pipe Sheet and Semi Finished Products
<b>Features</b>	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
<b>Typical Customer Applications</b>	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/cm³
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 (23 °C, Type 1, Notch A) (- 20 °C, Type 1, Notch A)	ISO 180	No Break	
		70	kJ/m²
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.

