Hifax CA 10 A

Advanced Polyolefin

Product Description

Hifax CA 10 A is a reactor TPO (thermoplastic polyolefin) manufactured using the LyondellBasell proprietary *Catalloy* process technology. It is suitable for industrial applications where a combination of good processability and excellent softness is required.
It is widely used as building block resin for flexible water-proofing membranes.
Hifax CA 10 A exhibits low stiffness, low hardness and good impact resistance. The grade is available in natural pellet form.
For regulatory compliance information see *Hifax* CA 10 A Product Stewardship Bulletin (PSB).

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, North America, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Extrusion Compounding, Extrusion Flat-die, Extrusion Wire, Blown Film, Calandering, Extrusion Pipe Sheet and Semi Finished Products, Extrusion Thermoforming
Features	High ESCR (Environmental Stress Cracking Resistance), Low Hardness , Medium Heat Resistance , Good Impact Resistance
Typical Customer Applications	Panels & Profiles, Polymer modifier, Single Ply Roofing, TPO Foils and Skins, Water management membranes, 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	0.6	g/10 min
Mechanical			
Tensile Stress at Break	ISO 527-1, -2	11	MPa
Tensile Strain at Break	ISO 527-1, -2	> 500	%
Flexural modulus	ISO 178	80	MPa
Impact			
Notched izod impact strength	ISO 180		
(23 °C, Type 1, Notch A)		No Break	
(- 20 °C, Type 1, Notch A)		No Break	
Hardness			
Shore hardness (Shore D) *Note*: 15 seconds	ISO 868	30	
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	40	°C
Heat deflection temperature A (1.80 MPa) Unannealed	ISO 75A-1, -2	32	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	60	°C
Melting temperature *Note*: ISO 11357-3	DSC	142	°C

Additional Properties

Mechanical: ISO 527-1, -2. Specimens cut from compression molded plates. Deformation speed 500mm/min.

Stress at Yield: 6 MPa
Stress at Break: 20 MPa
Elongation at Break: 800 %

Notes

Typical properties; not to be construed as specifications.