

Hifax CA 10 A

Thermoplastic Polyolefin Elastomer

LyondellBasell Industries

Message:

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).

General Information			
Features	Good Impact Resistance		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
	Low Hardness		
	Medium Heat Resistance		
Uses	Film		
	Membranes		
	Plastics Modification		
	Profiles		
	Reinforced Panels		
	Sealants		
	Sheet		
	Wall Panels		
Forms	Wire & Cable Applications		
	Pellets		
Processing Method	Blown Film		
	Calendering		
	Compounding		
	Extrusion		
	Film Extrusion		
	Pipe Extrusion		
	Sheet Extrusion		
	Thermoforming		
	Wire & Cable Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.880	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.60	g/10 min	ISO 1133

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	30		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
Yield, Compression Molded	6.00	MPa	ISO 527-2/500
Break	11.0	MPa	ISO 527-2
Break, Compression Molded	20.0	MPa	ISO 527-2/500
Tensile Strain			
Break	> 500	%	ISO 527-2
Break, Compression Molded	800	%	ISO 527-2/500
Flexural Modulus	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-20°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	40.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	32.0	°C	ISO 75-2/A
Vicat Softening Temperature	60.0	°C	ISO 306/A50
Melting Temperature	142	°C	ISO 11357-3

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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