

# Hifax CA 7442 A

Thermoplastic Polyolefin Elastomer  
LyondellBasell Industries

Message:

Hifax CA 7442 A is a reactor TPO (thermoplastic polyolefin) manufactured using the LyondellBasell' s proprietary Catalloy process technology. It is primarily used for bumper and exterior trim applications in Automotive but can also be used as a base resin for technical compounds. It has a high impact performance and reduced shrinkage. The material also exhibits good processability. The grade is available in natural pellet form.

General Information			
Features	Impact resistance, high		
	Workability, good		
	Good formability		
	Medium liquidity		
	Low shrinkage		
	Medium hardness		
Uses	Composite		
	Engineering accessories		
	Car anti-collision bar		
	Application in Automobile Field		
	Car exterior decoration		
	Outdoor application		
Appearance	Natural color		
Processing Method	Composite		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Transverse flow	0.70	%	Internal method
Flow	0.55	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/50
Yield, 23°C	19.0	MPa	ISO 527-2/50
Fracture, 23°C	17.0	MPa	ISO 527-2/50
Flexural Modulus - Chord <sup>1</sup> (23°C)	1000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179/1eA
-40°C	4.5	kJ/m <sup>2</sup>	ISO 179/1eA
-30°C	6.5	kJ/m <sup>2</sup>	ISO 179/1eA
-20°C	7.5	kJ/m <sup>2</sup>	ISO 179/1eA
23°C	50	kJ/m <sup>2</sup>	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	86.0	°C	ISO 75-2/B
Vicat Softening Temperature	121	°C	ISO 306/B
NOTE			
1.	2.0 mm/min		

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#### Recommended distributors for this material

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