

Hifax CA 7201 A

Thermoplastic Polyolefin Elastomer
LyondellBasell Industries

Message:

Hifax CA 7201 A is a reactor TPO (thermoplastic polyolefin) manufactured using the LyondellBasell' s proprietary Catalloy process technology. It is primarily used for bumper and interior/exterior trim applications in Automotive. It has a very high impact performance, reduced shrinkage and a very good paintability. The material also has a high level of processability. The grade is available in natural pellet form. For regulatory compliance information see Hifax CA 7201 A Product Stewardship Bulletin (PSB).

General Information	
Features	Good Dimensional Stability
	Good Processability
	High Impact Resistance
	Paintable
Uses	Automotive Applications
	Automotive Bumper
	Automotive Exterior Parts
	Automotive Exterior Trim
	Automotive Interior Trim
	Plastics Modification
Appearance	Natural Color
Forms	Pellets
Processing Method	Compounding
	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	1.2	%	
Flow	0.90	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	56		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	17.0	MPa	ISO 527-2/50
Tensile Strain (Break)	> 500	%	ISO 527-2
Flexural Modulus - Chord ¹ (23°C)	750	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-40°C	14	kJ/m ²	
-30°C	44	kJ/m ²	
-20°C	No Break		
23°C	50	kJ/m ²	
Instrumented Dart Impact ² (-30°C, 3.20 mm, Energy at Peak Load, Ductile Failure)			ASTM D3763
	23.9	J	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	45.0	°C	ISO 75-2/A
Vicat Softening Temperature	115	°C	ISO 306/A50
NOTE			
1.	2.0 mm/min		
2.	2.20 m/sec		

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