

Hifax CA 207 A

Polyolefin
LyondellBasell Industries

Message:

Hifax CA 207 A is a reactor TPO (thermoplastic polyolefin) manufactured using LyondellBasell’s proprietary Catalloy process technology. It is suitable for injection molding applications as well as for wire & cable extrusion process.

As an impact modifier for compounding applications, it can be blended with other polyolefinic resins for a better shrinkage control and to improve the low temperature impact resistance.

It does not contain any slip nor anti-blocking agents. The grade is available in natural pellet form.

For regulatory compliance information see Hifax CA 207 A Product Stewardship Bulletin (PSB).

General Information			
Features	Good Abrasion Resistance		
	Good Dimensional Stability		
	Good Electrical Properties		
	High Heat Resistance		
	High Impact Resistance		
	Low Temperature Impact Resistance		
Uses	Outdoor Applications		
	Plastics Modification		
	Wire & Cable Applications		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Compounding Extrusion		
	Injection Molding		
	Wire & Cable Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.5	g/10 min	ISO 1133
Molding Shrinkage ¹ (48 hr, 3.20 mm)	0.60	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	50		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	14.0	MPa	
Break	22.0	MPa	
Tensile Strain			ISO 527-2
Yield	20	%	

Break	> 800	%	
Flexural Modulus	500	MPa	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ²	122	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (-40°C)	10	kJ/m ²	ISO 180/1A
Instrumented Dart Impact			ASTM D3763
-40°C, Ductile Failure ³	23.0	J	
23°C, Ductile Failure ⁴	16.0	J	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	60.0	°C	ISO 75-2/B
Vicat Softening Temperature	94.0	°C	ISO 306/A50
Melting Temperature (DSC)	162	°C	ISO 3146
NOTE			
1.	100x150x3.2 mm		
2.	Die C, 50 mm/min		
3.	6.60 m/sec		
4.	2.20 m/sec		

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