



Hifax CA 207 A

LyondellBasell Industries - Polyolefin

Tuesday, November 5, 2019

General Information

Product Description

Hifax CA 207 A is a reactor TPO (thermoplastic polyolefin) manufactured using the 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.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Abrasion Resistant • Good Dimensional Stability	• Good Electrical Properties • High Heat Resistance	• High Impact Resistance • Low Temperature Impact Resistance
Uses	• Automotive Applications • Automotive Exterior Parts • Automotive Interior Parts • Blending	• Building Materials • Compounding • Construction Applications • Industrial Applications	• Plastics Modification • Wire & Cable Applications
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Compounding	• Injection Molding	• Wire & Cable Extrusion

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.890	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.5	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	2030	psi	ISO 527-2
Tensile Stress (Break)	3190	psi	ISO 527-2
Tensile Strain (Yield)	20	%	ISO 527-2
Tensile Strain (Break)	700	%	ISO 527-2
Flexural Modulus	79800	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°F, Complete Break	2.4	ft-lb/in ²	
-4°F, Partial Break	21	ft-lb/in ²	
73°F, Partial Break	31	ft-lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	46		ISO 868
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	136	°F	ISO 75-2/B
Vicat Softening Temperature	201	°F	ISO 306/A50
Melting Temperature	325	°F	ISO 11357-3

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Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45°, 1.97 mil	60		
60°, 45.0 mil	110		
Haze			ASTM D1003
1.97 mil	13.0	%	
45.0 mil	23.0	%	

Notes

¹ Typical properties: these are not to be construed as specifications.