



# Hifax X 1956 A

LyondellBasell Industries - Polyolefin

Tuesday, November 5, 2019

## General Information

### Product Description

Hifax X 1956 A is a reactor TPO (thermoplastic polyolefin) manufactured using the LyondellBasell's proprietary Cataloy process technology. This grade is primarily used in polyolefin-based compounds to improve mechanical properties and enhance moulded part appearance. In particular, the product is used by our customers for providing tiger stripe resistance and improved aesthetics for unpainted automotive components. 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	• Good Colorability • Good Flexibility	• Good Impact Resistance • High Elongation	• High Tensile Strength • Low Flow
Uses	• Automotive Applications • Automotive Exterior Parts • Building Materials	• Compounding • Construction Applications • Consumer Applications	• Industrial Applications • Plastics Modification • Profiles
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Calendering • Compounding	• Extrusion • Injection Molding	• Thermoforming

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.890	g/cm <sup>3</sup>	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.90	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	2900	psi	ISO 527-2
Tensile Stress (Break)	4350	psi	ISO 527-2
Tensile Strain (Yield)	12	%	ISO 527-2
Tensile Strain (Break)	500	%	ISO 527-2
Flexural Modulus	116000	psi	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	383	lbf/in	ASTM D624
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°F, Complete Break	2.4	ft-lb/in <sup>2</sup>	
-4°F, Complete Break	4.8	ft-lb/in <sup>2</sup>	
73°F, Partial Break	45	ft-lb/in <sup>2</sup>	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	65		ISO 868
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	158	°F	ISO 75-2/B
Vicat Softening Temperature	293	°F	ISO 306/A50
Melting Temperature	325	°F	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 45.0 mil)	57		ASTM D2457

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### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.