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 Catalloy 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 [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.890	g/cm³	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/in²	
-4°F, Complete Break	4.8	ft·lb/in²	
73°F, Partial Break	45	ft·lb/in²	
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

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