

## Hifax X 1956 A

### Advanced Polyolefin

#### 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.

For regulatory compliance information see *Hifax X 1956 A Product Stewardship Bulletin (PSB)*.

#### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method used</b>	ISO
<b>Processing Methods</b>	Extrusion Compounding, Extrusion Flat-die, Calendering, Extrusion Thermoforming, Injection Molding
<b>Features</b>	Good Colorability, High Elongation, Good Flexibility, Low Flow , Good Impact Resistance , High Tensile Strength
<b>Typical Customer Applications</b>	Exterior Applications, Panels & Profiles, Polymer modifier, TPO Skins

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Density	ISO 1183	0.89	g/cm <sup>3</sup>
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	1.2	g/10 min
<i>Note: Alternative test method is ASTM D 1238-01.</i>			
<b>Mechanical</b>			
Tensile Stress at Yield	ISO 527-1, -2	20	MPa
Tensile Strain at Break	ISO 527-1, -2	> 500	%
Tensile Strain at Yield	ISO 527-1, -2	> 10	%
Flexural modulus	ISO 178	850	MPa
<b>Impact</b>			
Notched izod impact strength	ISO 180		
(- 40°C, Type 1, Notch A)		5	kJ/m <sup>2</sup>
(23°C, Type 1, Notch A)		75	kJ/m <sup>2</sup>
(- 20 °C, Type 1, Notch A)		40	kJ/m <sup>2</sup>
<b>Hardness</b>			
Shore hardness (Shore D)	ISO 868	65	
<i>Note: 15 seconds</i>			
<b>Thermal</b>			
Vicat softening temperature (A50 (50 °C/h 10 N))	ISO 306	148	°C
Melting temperature	DSC	163	°C
<i>Note: ISO 11357-3</i>			

#### Additional Properties

Tear Strength (Graves, Die C, 50mm/min), ASTM D 624, Load/Width @ Max Load: 67 N/mm

#### Notes

Typical properties; not to be construed as specifications.

