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

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, North America, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Extrusion Compounding, Extrusion Flat-die, Calandering, Extrusion Thermoforming, Injection Molding
Features	Good Colorability, High Elongation, Good Flexibility, Low Flow , Good Impact Resistance , High Tensile Strength
Typical Customer Applications	Exterior Applications, Panels & Profiles, Polymer modifier, TPO Skins

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.89	g/cm³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	1.2	g/10 min
Note: Alternative test method is ASTM D 1238-01.			
Mechanical			
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
Impact			
Notched izod impact strength	ISO 180		
(- 40°C, Type 1, Notch A)		5	kJ/m²
(23°C, Type 1, Notch A)		75	kJ/m²
(- 20 °C, Type 1, Notch A)		40	kJ/m²
Hardness			
Shore hardness (Shore D)	ISO 868	65	
Note: 15 seconds			
Thermal			
Vicat softening temperature (A50 (50 °C/h 10 N))	ISO 306	148	°C
Melting temperature	DSC	163	°C
Note: ISO 11357-3			

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.