

# Hifax X M2 U16

Polypropylene Homopolymer

LyondellBasell Industries

## Message:

Hifax X M2 U16 is a 20% mineral filled, polypropylene grade for injection molding. The grade features very high stiffness and good scratch resistance. The grade has good UV resistance designed for outdoor applications. Typical customer applications are cowl vent grills. The grade is available in colored, pellet form.

General Information			
Filler / Reinforcement	Mineral,20% Filler by Weight		
Additive	UV Stabilizer		
Features	Good UV Resistance		
	Homopolymer		
	Scratch Resistant		
	Ultra High Stiffness		
Uses	Automotive Applications		
	Automotive Exterior Parts		
	Outdoor Applications		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	14.0	cm <sup>3</sup> /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	71.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant	2750	MPa	ISO 527-2
Tensile Stress			ISO 527-2/50
Yield	32.0	MPa	
Break	26.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	5.5	%	
Break	24	%	
Flexural Modulus - Secant	2900	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength (23°C, Complete Break)	3.0	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	34	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	120	°C	ISO 75-2/B
1.8 MPa, Unannealed	66.0	°C	ISO 75-2/A

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