

ELIX™ ABS H605

Acrylonitrile Butadiene Styrene

ELIX Polymers, S. L.

PROSPECTOR®

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Technical Data

Product Description

ELIX ABS H605

Improved heat resistance, low emissions, easy-flowing.

ISO Shortname: ISO 2580-1 -ABS 0, MG, 105-30-16-25

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
UL Yellow Card ²	• E350602-101011316
Search for UL Yellow Card	• ELIX Polymers, S. L. • ELIX™ ABS
Availability	• Europe • North America
Features	• Good Flow • High Heat Resistance • Low Emissions
Forms	• Pellets
Part Marking Code (ISO 2580)	• ABS 0, MG, 105-30-16-25

Physical	Nominal Value Unit	Test Method
Density	1.05 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	25.0 cm ³ /10min	ISO 1133
Molding Shrinkage ⁴		ISO 294-4
Across Flow	0.40 to 0.60 %	
Flow	0.40 to 0.60 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus (23°C)	2400 MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	47.0 MPa	ISO 527-2/50
Tensile Strain		ISO 527-2/50
Yield, 23°C	2.5 %	
Break, 23°C	> 15 %	
Flexural Modulus ⁵ (23°C)	2400 MPa	ISO 178
Flexural Stress ⁵ (23°C)	72.0 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	7.0 kJ/m ²	
23°C	17 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C	80 kJ/m ²	
23°C	90 kJ/m ²	
Notched Izod Impact Strength		ISO 180/1A
-30°C	7.0 kJ/m ²	
23°C	17 kJ/m ²	

Hardness	Nominal Value Unit	Test Method
Ball Indentation Hardness	105 MPa	ISO 2039-1

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Annealed	102 °C	ISO 75-2/B
1.8 MPa, Annealed	98.0 °C	ISO 75-2/A
Vicat Softening Temperature	101 °C	ISO 306/B50



Electrical	Nominal Value Unit	Test Method
Electric Strength (23°C, 1.00 mm)	33 kV/mm	IEC 60243-1
Relative Permittivity		IEC 60250
23°C, 100 Hz	3.10	
23°C, 1 MHz	3.00	
Dissipation Factor		IEC 60250
23°C, 100 Hz	5.0E-3	
23°C, 1 MHz	8.0E-3	
Comparative Tracking Index (Solution A)	600 V	IEC 60112
Flammability	Nominal Value Unit	Test Method
Burning Rate ⁶ (2.00 mm)	60 mm/min	ISO 3795
Flame Rating (1.60 mm)	HB	UL 94
Glow Wire Flammability Index (2.00 mm)	700 °C	IEC 60695-2-12
Injection	Nominal Value Unit	Test Method
Processing (Melt) Temp	240 °C	
Mold Temperature	70.0 °C	
Injection Velocity	240 mm/sec	ISO 294

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ 60x60x2

⁵ 2.0 mm/min

⁶ US - FMVSS

