

ELIX™ ABS HH 3110

Acrylonitrile Butadiene Styrene

ELIX Polymers, S. L.

Message:

High heat resistance ABS
ISO shortname: ISO 2580-1 ABS 1-M, MG, 105-15-16-25
Benefits:
Increased flow. Good process ability behavior
Super low emission grade
Lower mould deposits in injection molding processing applications
Better dimensional under heat
Chemical Composition:
Acrylonitrile-butadiene-styrene (ABS) copolymer modified with poly(styrene-co-maleimide) (SMI)

General Information			
Features	Good Processability		
	High Heat Resistance		
	Low Emissions		
Appearance	White		
	Yellow		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	12.0	cm ³ /10min	ISO 1133
Molding Shrinkage ¹			ISO 294-4
Across Flow	0.60 to 0.70	%	
Flow	0.60 to 0.70	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	105	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2300	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	45.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	19	%	ISO 527-2/50
Flexural Modulus ² (23°C)	2460	MPa	ISO 178
Flexural Stress ³ (23°C)	71.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	16	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength			ISO 180/1A
-30°C	11	kJ/m ²	

23°C	15	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	107	°C	ISO 75-2/B
1.8 MPa, Unannealed	101	°C	ISO 75-2/A
Vicat Softening Temperature			
--	108	°C	ISO 306/B50
--	110	°C	ISO 306/B120
CLTE - Flow (23 to 55°C)	9.2E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁴ (2.00 mm)	< 55	mm/min	ISO 3795
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	Test Method
Processing (Melt) Temp	240	°C	
Mold Temperature	70.0	°C	
Injection Velocity	240	mm/sec	ISO 294
NOTE			
1.	60x60x2		
2.	2.0 mm/min		
3.	2.0 mm/min		
4.	US - FMVSS		

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