ELIX™ ABS HH 3114

Acrylonitrile Butadiene Styrene

ELIX Polymers, S. L.

Message:

Very high heat resistance ABS
ISO shortname: ISO 2580-1 ABS 2-M, MG, 115-08-09-20
Benefits:
Increased flow
Super low emission grade
Very high vicat softening point ABS grade suitable for interior and exterior applications
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	High Heat Resistance Low Emissions		
Appearance	White Yellow		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.04	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	9.00	cm³/10min	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)	2200	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	42.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	17	%	ISO 527-2/50
Flexural Modulus [2] (23°C)	2400	MPa	ISO 178
Flexural Stress [3] (23°C)	66.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	13	kJ/m²	ISO 179/1eA
Notched Izod Impact Strength			ISO 180/1A
-30°C	8.0	kJ/m²	

23°C	13	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	112	°C	ISO 75-2/B
1.8 MPa, Unannealed	104	°C	ISO 75-2/A
Vicat Softening Temperature			
--	112	°C	ISO 306/B50
--	114	°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		

Recommended distributors for this material

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