ELIX™ ABS HH 3105

Acrylonitrile Butadiene Styrene

ELIX Polymers, S. L.

Message:

High heat resistance ABS
ISO shortname: ISO 2580-1 ABS 1-M, MG, 105-15-16-20
Benefits:
Excellent balance of impact strength and flowability
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	High Heat Resistance Low Emissions		
Appearance	White Yellow		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.03	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	16.0	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	95.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	2150	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	42.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	32	%	ISO 527-2/50
Flexural Modulus [2] (23°C)	2260	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)	19	kJ/m²	ISO 179/1eA
Notched Izod Impact Strength			ISO 180/1A
-30°C	11	kJ/m²	
23°C	18	kJ/m²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	104	°C	ISO 75-2/B
1.8 MPa, Unannealed	99.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	103	°C	ISO 306/B50
--	105	°C	ISO 306/B120
CLTE - Flow (23 to 55°C)	9.9E-5	cm/cm/°C	ISO 11359-2
Flammability	**Nominal Value**	**Unit**	**Test Method**
Burning Rate [4] (2.00 mm)	< 50	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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