

ELIX™ Ultra HH 4115 HI

Acrylonitrile Butadiene Styrene

ELIX Polymers, S. L.

Message:

ELIX ULTRA HH 4115 HI
Very high heat resistance ABS with extreme impact resistance
ISO shortname: ISO 2580-1 ABS 2-X, MG, 115-15-35-20
Benefits:
Extreme impact resistance with low temperature ductility
Very high impact up to -30°C
Well balanced flowability and heat resistance
Lower density than PC/ABS
Low emission and odor grade
Lower mould deposits in injection molding processing applications
Better dimensional under heat
Chemical Composition:
Acrylonitrile-butadiene-styrene (ABS) copolymer modified with polycarbonate and poly(styrene-co-maleimide)

General Information			
Features	High Heat Resistance		
	High Impact Resistance		
	Low Emissions		
	Low Temperature Impact Resistance		
	Low to No Odor		
Appearance	White		
	Yellow		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density (25°C)	1.07	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	14.0	cm ³ /10min	ISO 1133
Molding Shrinkage ¹			ISO 2577
Across Flow	0.65 to 0.75	%	
Flow	0.65 to 0.75	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	90.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2000	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	42.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield, 23°C	7.0	%	
Break, 23°C	53	%	

Nominal Tensile Strain at Break (23°C)	20	%	ISO 527-2/50
Flexural Modulus ² (23°C)	2000	MPa	ISO 178
Flexural Stress ³ (23°C)	68.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	40	kJ/m ²	
23°C	53	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	41	kJ/m ²	
23°C	58	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	113	°C	ISO 75-2/B
1.8 MPa, Unannealed	101	°C	ISO 75-2/A
Vicat Softening Temperature			
--	113	°C	ISO 306/B50
--	115	°C	ISO 306/B120
CLTE - Flow (23 to 55°C)	8.9E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁴ (2.00 mm)	< 40	mm/min	ISO 3795
Flame Rating (1.60 mm)	HB		UL 94
Carbon Emission - Total (23°C)	< 25.0	µgC/g	VDA 277
Emission			VDA 278
FOG total : 23°C	< 5.00	µg/g	
VOC total : 23°C	< 10.0	µg/g	
Injection Velocity	240	mm/sec	ISO 294
Injection	Nominal Value	Unit	Test Method
Processing (Melt) Temp	240	°C	
Mold Temperature	70.0	°C	
NOTE			
1.	60x60x2 mm		
2.	2.0 mm/min		
3.	2.0 mm/min		
4.	US - FMVSS		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

