ELIX™ Ultra 4105

Polycarbonate + ABS

ELIX Polymers, S. L.

Message:

ELIX Ultra 4105
Medium high heat grade with superior impact resistance, PC-modified, low emission
ISO Shortname: ISO 2580-1 -ABS 2-X, MG, 105-04-35-20

General Information			
Features	Low volatilization		
	Impact resistance, high		
	Heat resistance, medium		
Forms	Particle		
Part Marking Code (ISO 2580)	ABS 2-X, MG, 105-04-35-20		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (25°C)	1.07	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	14.0	cm³/10min	ISO 1133
Molding Shrinkage [1]			ISO 2577
Vertical flow direction	0.60 - 0.80	%	ISO 2577
Flow direction	0.60 - 0.80	%	ISO 2577
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness	85.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	2000	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 23°C	45.0	MPa	ISO 527-2/50
Fracture, 23°C	37.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield, 23°C	3.7	%	ISO 527-2/50
Fracture, 23°C	30	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	15	%	ISO 527-2/50
Flexural Modulus [2] (23°C)	2000	MPa	ISO 178
Flexural Stress [3] (23°C)	70.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	30	kJ/m²	ISO 179/1eA
23°C	40	kJ/m²	ISO 179/1eA
Notched Izod Impact			ISO 180/1A
-30°C	34	kJ/m²	ISO 180/1A

23°C	42	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	108	°C	ISO 75-2/B
1.8 MPa, not annealed	99.0	°C	ISO 75-2/A
Vicat Softening Temperature	106	°C	ISO 306/B50
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 55°C	9.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	9.0E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	2.0E+17	ohms	IEC 60093
Volume Resistivity	6.0E+16	ohms·cm	IEC 60093
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.00		IEC 60250
23°C, 1 MHz	3.00		IEC 60250
Dissipation Factor			IEC 60250
23°C, 100 Hz	3.8E-3		IEC 60250
23°C, 1 MHz	8.6E-3		IEC 60250
Flammability	**Nominal Value**	**Unit**	**Test Method**
Burning Rate [4] (2.00 mm)	34	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
NOTE			
1.	150x105x3		
2.	2.0 mm/min		
3.	2.0 mm/min		
4.	US - FMVSS		

Recommended distributors for this material

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