

ELIX ABS H801

high heat resistance , PC-modified , low emission , increased flow

Typical properties*

Property	Test Condition	Standard	Unit	Value
			SI Metrics	
Rheological properties				
Melt volume-flow rate	220 °C; 10 kg	ISO 1133	cm³/(10 min)	12
Molding shrinkage, normal	60x60x2 mm	ISO 294-4	%	0.5-0.7
Molding shrinkage, parallel	60x60x2 mm	ISO 294-4	%	0.5-0.7
Mechanical properties (23 °C/50 % r. h.)				
Yield stress	50 mm/min	ISO 527-1,-2	MPa	47
Tensile modulus	1 mm/min	ISO 527-1,-2	MPa	2400
Yield strain	50 mm/min	ISO 527-1,-2	%	3
Flexural strength	2 mm/min	ISO 178	MPa	76
Flexural modulus	2 mm/min	ISO 178	MPa	2300
Izod notched impact strength	23 °C	ISO 180-1A	kJ/m²	34
	-30 °C	ISO 180-1A	kJ/m²	16
Charpy unnotched impact strength	-30 °C	ISO 179-1eU	kJ/m²	266
Charpy notched impact strength	23 °C	ISO 179-1eA	kJ/m²	30
	-30 °C	ISO 179-1eA	kJ/m²	16
Ball indentation hardness		ISO 2039-1	N/mm²	105
Thermal properties				
Temperature of deflection under load	0.45 MPa	ISO 75-1,-2	°C	106
	1.80 MPa	ISO 75-1,-2	°C	99
Vicat softening temperature	50 N; 50 °C/h	ISO 306	°C	104
Burning behavior UL 94 (1.6 mm)	1.6 mm	UL 94	Class	HB
Coefficient of linear thermal expansion, parallel	23 to 55 °C	ISO 11359-1,-2	10-4/K	0,8
Coefficient of linear thermal expansion, transverse	23 to 55 °C	ISO 11359-1,-2	10-4/K	0,8
Burning rate (US-FMVSS)	2.0 mm	ISO 3795	mm/min	<80
Glow wire test (GWFI)	2.0 mm	IEC 60695-2-12	°C	675
Electrical properties (23 °C/50 % r. h.)				
Relative permittivity	100 Hz	IEC 60250	-	3,1
	1 MHz	IEC 60250	-	3
Dissipation factor	100 Hz	IEC 60250	10-4	50
	1 MHz	IEC 60250	10-4	90
Volume resistivity		IEC 60093	Ohm·m	1E14
Surface resistivity		IEC 60093	Ohm	1E16
Electric strength	1 mm	IEC 60243-1	kV/mm	38

Property	Test Condition	Standard	Unit	Value
Comparative tracking index CTI	Solution A	IEC 60112	Rating	600
Other properties (23 °C)				
Density		ISO 1183	g/cm ³	1,07
Processing conditions for test specimens				
Injection molding-Melt temperature		ISO 294	°C	240
Injection molding-Mold temperature		ISO 294	°C	70
Injection molding-Injection velocity		ISO 294	mm/s	240

*Control measurements in other places may issue different results due to influences of machinery, equipment, test method or storage conditions.

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Test values

Unless specified to the contrary, the values given have been established on standardised test specimens at room temperature. The figures should be regarded as guide values only and not as binding minimum values. Kindly note that, under certain conditions, the properties can be affected to a considerable extent by the design of the mould/die, the processing conditions and the colouring.

Processing note

Under the recommended processing conditions small quantities of decomposition product may be given off during processing. To preclude any risk to the health and well-being of the machine operatives, tolerance limits for the work environment must be ensured by the provision of efficient exhaust ventilation and fresh air at the workplace in accordance with the Safety Data Sheet. In order to prevent the partial decomposition of the polymer and the generation of volatile decomposition products, the prescribed processing temperatures should not be substantially exceeded. Since excessively high temperatures are generally the result of operator error or defects in the heating system, special care and controls are essential in these areas.

Emission disclaimer

Components made of this grade are only pour in emission if processed correctly

Information for coloring natural-colored products

In view of the special composition of this product, when coloring natural-colored products particular care must be taken to ensure that all the coloring agents and ancillary materials used are compatible with polycarbonate. If materials are used that are incompatible with PC, a considerable deterioration must be expected in the mechanical properties, in particular.

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