

Elix ABS P3M-AT

high impact strength, increased chemical resistance

Property	Test Condition	Unit	Standard	Value
Rheological properties				
Melt volume-flow rate	220 °C; 10 kg	cm ³ /(10 min)	ISO 1133	5.0
Mechanical properties (23 °C/50 % r. h.)				
Yield stress	50 mm/min	MPa	ISO 527-1,-2	40
Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	2200
Yield strain	50 mm/min	%	ISO 527-1,-2	2.5
Charpy impact strength	23 °C	kJ/m ²	ISO 179-1eU	N
Charpy impact strength	-30 °C	kJ/m ²	ISO 179-1eU	N
Charpy notched impact strength	23 °C	kJ/m ²	ISO 179-1eA	29
Charpy notched impact strength	-30 °C	kJ/m ²	ISO 179-1eA	12
Thermal properties				
Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	92
Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	95
Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	97
Burning behavior UL 94 (1.6 mm)	1.6 mm	Class	UL 94	HB
Electrical properties (23 °C/50 % r. h.)				
Relative permittivity	100 Hz	-	IEC 60250	3.1
Relative permittivity	1 MHz	-	IEC 60250	2.9
Dissipation factor	100 Hz	10 ⁻⁴	IEC 60250	70
Dissipation factor	1 MHz	10 ⁻⁴	IEC 60250	80
Volume resistivity		Ohm·m	IEC 60093	1E15
Surface resistivity		Ohm	IEC 60093	1E15
Processing conditions for test specimens				
Injection molding-Melt temperature		°C	ISO 294	240
Injection molding-Mold temperature		°C	ISO 294	70
Injection molding-Injection velocity		mm/s	ISO 294	200

Elix ABS P3M-AT

Disclaimer

Disclaimer for sales products

This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold and our advisory service is given in accordance with the current version of our General Conditions of Sale and Delivery.

Test values styrenics

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. This is valid especially for CTI.

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.

ELIX Polymers, SL. Crta. Vila-seca a La Pineda, s/n 43110 La Canonja (Tarragona).

info@elix-polymers.com

© ELIX Polymers