

Acrylonitrile-Butadiene-Styrene copolymer (ABS) based compound. Magnetic detectable filler. High dimensional stability.

PHYSICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
Density	ISO 1183	1.29 g/cm ³
Linear shrinkage at moulding		
Longitudinal (0.078in/8,700psi)	ISO 294-4	0.003 ÷ 0.005 in/in
Transversal (0.078in/8,700psi)	ISO 294-4	0.003 ÷ 0.005 in/in
Moisture absorption (in air)		
after 24hrs	ISO 62-4	0.03 %
MECHANICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
CHARPY impact strength		
Unnotched, at +73°F	ISO 179-1eU	16.36 ft.lb/in ²
Notched, at +73°F	ISO 179-1eA	3.97 ft.lb/in ²
Tensile elongation		
At break (0.196 in/min), 73°F	ISO 527 (1)	8.5 %
Tensile strength		
At break (0.196 in/min), 73°F	ISO 527 (1)	2900 psi
Elastic modulus		
Tensile (speed 0.04 in/min), at 73°F	ISO 527 (1)	270 kpsi



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THERMAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
Coefficient of linear thermal expansion (CLTE)		
+86°C to +212°F (longitudinal)	ISO 11359-2	42 µin/(in⋅°F)
VICAT - Softening point		
11 lb (heating rate 122°F/h)	ISO 306	176 °F
HDT - Heat Deflection Temperature		
66 psi	ISO 75	167 °F
264 psi	ISO 75	194 °F
ELECTRICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
Electrical resistivity		
Surface	ASTM D 257	1E12 ohm

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MATERIAL - STORAGE

Sealed, undamaged packages has to be kept in dry storage facilities, providing they are also able to protect them from weather and accidental damages.

HANDLING AND SAFETY

Detailed information about a safe treatment of the material are indicated in the "Material Safety Data Sheet" (MSDS) furnished with the first material supply. The MSDS may be also sent again in case of loss.

PREDRYING CONDITIONS

These are the suggested conditions to reduce the moisture content to adequate levels. Temperature and drying time can be reduced by using vacuum ovens

ACTUAL MELT TEMPERATURE

The injection molding machine settings needed to obtain the suggested melt temperature will depend greatly on shot size and machine capacity, as well as other molding parameters such as: injection speed, screw RPM, back pressure, etc. On small machines, running short cycles, it is possible to use higher melt temperatures to improve plastification, fluidity and surface appearance, paying attention to any indication of material degradation.

MOLD TEMPERATURE

The mold temperature suggested above is the actual tool steel temperature. This can be significantly different from the tool settings, due to the cooling system efficiency and the accuracy of the temperature control on the tool.

INJECTION SPEED

The advisable injection speed greatly depends on cavity geometry and injection molding machine size. The use of high injection speed can improve the surface appearance, but it can also cause outgassing and burn marks due to overheating through shear stress.

REGRIND USAGE

The use of regrind is possible, but should be assessed on the basis of the project, moulding parameters, and type of grinding used. The effect of using regrind on material properties must be evaluated by the customer on its specific project and process. High percentages of regrind may cause a reduction in viscosity, reducing mechanical properties, first resilience.

HOT RUNNER MOLDS

Hot runner moulds may be used when a very tight temperature control is assured.



At least 3 hours at 158 ÷ 176°F

86 ÷ 122°F

428 ÷ 500°F

High_



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TO AVOID

In order to prevent any material degradation, over-dimensioned machines should be avoided.

NOTES

Versions of product mentioned herein are suitable for applications in contact with foodstuff or for potable water transportation, or for toy manufacturing. However, manufactured parts have to be verified according to the specific directives. The products mentioned herein are not suitable for applications in the pharmaceutical, medical or dental sector.

CONTACTS

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Values shown are based on testing of injection moulded laboratory test specimens, conditioned according to the standard and represent data that fail within the standard range of properties for non-coloured material, if not otherwise specified. As they may be subject to variations, these values do not impresent a sufficient basis for any part design and are not intended for use in establishing values for specification purposes. Properties of moulded parts can be influenced by a wirk range of properties that and that the table do contraits, part design, processing conditions, post-treatment conditions, and unage of regrind udving the moulded parts can be influenced by a wirk range of properties has be considered wider. This information and provided as a comenine for informational purposes on and are subject to values do not instrument and laborating areas. If data are explicibly indicated as provisional, range of properties has be be considered wider. This information and technical assistance are provided as a comenine for informational purposes on a device to fail provided, and assume on responsibility for any part design actuations or summatices or guanatee, including a warranty of michanability of hardborr uses in made of the product, and make no representations as to account and the purpose for a technical assistance are provided uses and applications or used in conjunction with thrin-party materias. This application-specific analysis shall at least include products in order to determine to its own statification without here the uses of an application set or product and assistence and purpose for a technical as wells have for the technical as wells have by conductor concil LaB S p.A. descinants and laboratory to the tactometric as a specifically authorized tare by and uncertainal target on the constructions are any facultities or the constructions and the purpose for a technical as wells have by combining testing to fore the testing increassing been obler in commating and preduction in the information specifi

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