テクニカルデータシート

SustaABS - ASTM

製品の特徴

- 低吸湿性
- 優れた吸音性
- 高い剛性

製品の用途例

- 車両建造
- エレクトロニクス
- 機械工学

	試験法	単位	値
一般的物性			
密度	ASTM D792	g / cm^3	1.04
Water Absorption	ASTM D570	%	0.7
吸水率 (24時間後)	ASTM D570	%	0.45
散逸係数	ASTM D150	1MHz	0.015
機械的物性			
降伏点での引張強度	ASTM D638	psi	6100
硬度	ASTM D2240	Shore D	74
引張弾性率	ASTM D638	psi	310000
Tensile Elongation	ASTM D638	%	2000
曲げ強度	ASTM D790	psi	10500
曲げ弾性率	ASTM D790	psi	340000
圧縮強度	ASTM D695	psi	7600
Rockwell Hardness	ASTM D785	R	102
アイゾッド衝撃強度 (ノッチ付き)	ASTM D256	ft-lb/in	8
動的摩擦係数			0.35
熱的物性			
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10^{-5}	5.6
連続使用温度, 空気中		°F	170
荷重たわみ温度 at 1.8Mpa (66psi)	ASTM D648	°F	230
燃焼性, UL94		1/8 inch	HB
電気的物性			

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	試験法	単位	値
表面固有抵抗	ASTM D257	Ω/cm	$>10^{13}$
Compliance properties			
FDA			No
NSF			No
USDA			No

The short-term maximum application temperature only applies to very low mechanical stress for a few hours. The long-term maximum application temperature is based on the thermal ageing of plastics by oxidation, resulting in a decrease of the mechanical properties. This applies to an exposure to temperatures for at least 5.000 hours causing a 50% loss of the tensile strength from the original value (measured at room temperature). This value says nothing about the mechanical strength of the material at high application temperatures. In case of thick-walled parts, only the surface layer is affected by oxidation from high temperatures. With the addition of antioxidants, a better protection of the surface layer is achieved. In any case, the center area of the material remains unaffected. The minimum application temperature is basically influenced by possible stress factors like impact and/or shock under application. The values stated refer to an minimum degree of impact stress. The electrical properties as stated result from measurements on natural, dry material. With other colours (in particular black) or saturated material, there may be clear differences in the electrical properties. The data stated above are average values ascertained by statistical tests on a regular basis. They are in accordance with DIN EN 15860. They serve as information about our products and are presented as a guide to choose from our range of materials. This, however, does not include an assurance of specific properties or the suitability for particular application purposes that are legally binding. Since the properties also depend on the dimension of the semi-finished products and the degree of crystallization (e.g. nucleating by pigments), the actual values of the properties of a particular product may differ from the indicated values.

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