

Technical Data Sheet

SustaABS - ASTM

Typical characteristics

- Low moisture absorption
- Good noise absorption properties
- High stiffness

Typical industries

- Vehicle Construction
- Electronics
- Mechanical Engineering Industry

STM D792 STM D570 STM D570 STM D150 STM D638 STM D638 STM D638 STM D638 STM D638 STM D790 STM D790	Unit g / cm³ % % 1MHz psi Shore D psi % psi	1.04 0.7 0.45 0.015 6100 74 310000 2000
STM D570 STM D570 STM D150 STM D638 STM D2240 STM D638 STM D638	% % IMHz psi Shore D psi %	0.7 0.45 0.015 6100 74 310000 2000
STM D570 STM D570 STM D150 STM D638 STM D2240 STM D638 STM D638	% % IMHz psi Shore D psi %	0.7 0.45 0.015 6100 74 310000 2000
STM D570 STM D150 STM D638 STM D2240 STM D638 STM D638 STM D790	% IMHz psi Shore D psi %	0.45 0.015 6100 74 310000 2000
STM D638 STM D2240 STM D638 STM D638 STM D790	psi Shore D psi %	0.015 6100 74 310000 2000
STM D638 STM D2240 STM D638 STM D638 STM D790	psi Shore D psi %	6100 74 310000 2000
STM D2240 STM D638 STM D638 STM D790	Shore D psi %	74 310000 2000
STM D2240 STM D638 STM D638 STM D790	Shore D psi %	74 310000 2000
STM D638 STM D638 STM D790	psi %	310000 2000
STM D638 STM D790	%	2000
STM D790		
	psi	10500
2TM D700		
STM D790	psi	340000
STM D695	psi	7600
STM D785	R	102
STM D256	ft-lb/in	8
		0.35
STM D696	in/in/°F x10 ⁻⁵	5.6
	°F	170
STM D648	°F	230
	1/8 inch	НВ
	STM D696 STM D648	°F STM D648 °F

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	Test method	Unit	Guideline value
Surface resistivity	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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