RÖCHLING Engineering Plastics

RÖCHLING datasheet

SUSTA | 2009

SUSTA**ABS**

SUSTA**ABS** (acrylonitrile butadiene styrene) is a low cost mechanical plastic that is easy to machine and fabricate. This product is an ideal material for use in prototyping because of it's excellent dimensional stability and it is easy to paint or glue. SUSTA**ABS** is well suited for structural applications where impact resistance, strength and stiffness are required. SUSTA**ABS** comes in Natural (beige) and Black.

Product Features:

- High rigidity
- Good impact resistance, even at low temperature
- High dimensional stability
- Stress - crack resistant
- Continuous use temperature of 170°F
- Good sound damping properties
- Good thermoformability and weldability
- Outstanding electroplatability

Typical Properties of Stock Shapes

Property	Units	Test Method	Natural&Black
Specific Gravity	-	ASTM D 792	1.04
Water Absorption 24 hrs	%	ASTM D 570	0.45
Water Absorption Saturation	%	ASTM D 570	0.7
Flammability	-	UL 94	HB
Tensile Strength	psi	ASTM D 638	6,100
Elongation	%	ASTM D 638	40
Modulus	psi	ASTM D 638	310,000
Flexural Strength	psi	ASTM D 790	10,500
Modulus	psi	ASTM D 790	340,000
Notched Izod	ft-lb/in	ASTM D 256	4.03
Rockwell Hardness	-	ASTM D 785	R102
HDT @ 264 psi	°F	ASTM D 648	203
Coefficient Linear thermal expansion	in/in/°F	ASTM D 696	4.89×10^{-5}
Dielectric Strength	V / mil	ASTM D 149	450
Volume Resistivity	ohm-cm	ASTM D 257	10^{16}
Dielectric Constant	-	ASTM D 150	3.2

Typical Applications

- Appliance
- Housing
- Control panels
- Prototyping
- Healthcare/Medical knobs and housings

Certifications

- ASTM 4673

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