

Description

Reents Technologies ABS UL94 HB has been specifically developed for industrial applications and is characterized by its high process reliability. It is ideal for the production of components subjected to high mechanical stress. The material is electrically insulating.

Identification

Name	ABS UL94 HB
Chemical Name	Acrylonitrile Butadiene Styrene
Usage	Ideal for manufacturing mechanically stressed industrial components.

Advantages

- For industrial applications
- Flame retardant according to UL 94 HB
- Electrically insulating
- High mechanical stability

Properties

Mechanical properties

Test	Value	Unit	Methode
Density	1.06	g/cm ³	ASTM D792
Flexural Modulus	2550	MPa	ASTM D790
Flexural Strength	78	MPa	ASTM D790
Tensile Modulus	2350	MPa	ASTM D638
Tensile Strength	49	MPa	ASTM D638
Elongation at Yield	5	%	ASTM D638
Nominal Elongation at Break	10	%	ASTM D638
Notched Impact Strength	220 / 23°C	kJ/m ²	ASTM D256
Unnotched Impact Strength	90 / -30°C	kJ/m ²	ASTM D256

Thermal Properties

Test	Value	Unit	Method
VICAT A (VST)	92	°C	ASTM D1525
Melt Temperature	180-200	°C	ISO 3146-C
MFR	21	g/10min	ASTM D1238
HDT/B	85	°C	ASTM D648
Shrinkage	0.4	%	ASTM D955
Rockwell Hardness	110	R-SCALE	ASTM D785
Flammability	UL94 HB		

*Temperature resistance tested at wall thickness of at least 4 mm.

Certificate

REACH	Yes
RoHS	Yes
FDA	Yes
Chemically resistant	Yes
Flame retardant	UL94 HB