

MATERIAL DATA SHEET



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Material Data Sheet: Z-ABS

Physical Properties	Metric	English	Comments
Density	1.04 g/cm ³	8.679 lbs/gal	ASTM DATA
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	
Melt Flow	3.9 g/10 min Load 3.80 kg, Temperature 230 °C	0.0086 lb/10 min Load 8.38 lb, Temperature 446 °F	ASTM DATA
Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	
Tensile Strength, Yield	30.3 MPa	4390 psi	ASTM DATA
Elongation at Yield	1.8 %	1.8 %	ISO DATA
Tensile Modulus	1.86 GPa	270 ksi	ASTM DATA
Izod Impact, Notched	1.33 J/cm	2.49 ft-lb/in	ASTM DATA
Charpy Impact, Unnotched	NB	NB	ISO DATA
	NB	NB	ISO DATA, Low Temp
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	ISO DATA, Low Temp
	1.600 J/cm ²	7.61 ft-lb/in ²	ISO DATA
Thermal Properties	Metric	English	Comments
Vicat Softening Point	104°C	219°F	
Flame Class Rating	HB Thickness 1.47 mm	HB Thickness 0.0579 in	UL94
CTE, linear, Parallel to Flow	74.0 µm/m-°C Temperature 20 °C	41.1 µin/in-°F Temperature 68 °F	ISO DATA
Deflection Temperature at 1.8MPa (264 psi)	98.9°C	210°F	Annealed; ASTM DATA

The data presented in this document are intended for information and comparison purposes only. They should not be used for project specifications or its quality evaluation. The material's actual properties depend on the printing process conditions, the design structure and its purpose, test conditions, etc.

Samples of Z-ABS used to carry out the tests were made through plastic moulding.

Product specifications are subject to change without notice.

Each user is responsible for complying with product safety standards, its intended use as well as the law and waste disposal (and recycling) rules for electrical and electronic equipment. Zortrax does not make any express or implied warranties, including but not limited to implied warranties of merchantability or fitness for a particular purpose.

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