

SUPPLY SERVICES

performance engineering products

TECHNICAL DATA BULLETIN (TDB) RIGID PVC SHEET

Colour Dark grey (RAL7011), Light Grey (RAL7037), White (RAL9010)

Description Excellent chemical and corrosion resistance, excellent impact strength, easy to fabricate, weld or machine. Easily vacuum formable, high rigidity, superior strength. Reliable electrical insulation. Good features for printing. Low flammability, self-extinguishing. RoHS compliant.

	Test Standard (GB/T 22789.1-2008)	Unit	Typical Value
Physical			
Density	1.45 ~ 1.5	g/cm ³	1.45
Mechanical			
Tensile Strength (Length/Breadth)	≥45	MPa	52.9/48.9
Elongation (Length/Breadth)	≥8	%	29/32
Notch Impact Strength (Length/Breadth)	≥5	KJ/m ²	12/10.9
Charpy Unnotched Impact Strength 0°C	---	KJ/m ²	Pendulum 4J Sample not break
-20°C	---	KJ/m ²	
Bending Strength V=2mm/min	---	MPa	76.2
Ball Indentation Hardness 358N (h: 0.118~0.138)	---	N/mm ²	221
Thermal			
Vicat Softening Temperature	≥70	°C	86
Heat Shrinkage (Length/Breadth)	-5~+5	%	-5.0/+1.78
Deflection temperature under load (Length/Breadth)	---	°C	69.5/69.7
Chemical			
35%±1% (v/v) HCl 5h 60°C	±10	g/cm ³	+5
30%±1% (v/v) H2SO4 5h 60°C	±8	g/cm ³	+4
40%±1% (v/v) HNO3 5h 60°C	±8	g/cm ³	+4
40%±1% (v/v) NaOH 5h 60°C	±5	g/cm ³	+2
Electrical			
Volume Resistivity	---	ohm-cm	5.5 x 10 ¹³

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