



Material: Acetal H (Delrin®)

Manufactured from the Delrin® resin with similar properties to Acetal C but a superior mechanical material with even better machining properties.

Technical Specification

Property	Test Method	Units	Value
Colour	-	-	Natural(White)/Black
Density	ISO 1183	g/cm ³	1.43
Water Absorption - saturation in air (23°C/50%RH)	-	%	0.2
Water Absorption - saturation in water (23°C)	-	%	0.85
Tensile strength* ¹	ISO 527	N/mm ²	78
Tensile modulus of elasticity* ¹	ISO 527	N/mm ²	3600
Elongation at break* ¹	ISO 527	%	35
Impact - Charpy* ¹	179/1eU	kJ/m ²	>200
Impact – Izod notched	180/2A	kJ/m ²	10
Hardness	Rockwell Shore D	-	M88
Melt point	-	°C	175
Max service temp in air short periods	-	°C	150
Max service temp continuously for 20000hrs	-	°C	90
Linear thermal expansion coefficient	-	K ⁻¹ x10 ⁻⁵	9.5
Thermal Conductivity	-	W/(K.m)	0.31
Flammability (6mm thickness)	-	-	HB
Volume resistivity* ¹		Ohm.cm	>10 ¹⁴
Dielectric strength* ¹	IEC243	Kv/mm	20
Outside applications – UV resistance	-	-	B
Acids – strong (Ph<3)	-	-	C
Alkalis – strong (pH>11)	-	-	C
Chlorinated Hydrocarbons	-	-	A/B
Hot Water	-	-	B
'A' – Acceptable service, 'B' – Limited, 'C' – Unacceptable			
* ¹ Measured on dry test specimens (where applicable)			

Availability:

Rod, 1m & 3m long – 5-200mm diameter

Plate, 1m & 3m long x 610mm - 8-50mm thickness

Applications:

Gear wheels, Cams, Heavily loaded bearings and rollers, Insulating components, Pump housings, Domestic appliance parts, Impellers, Valves, Valve seats, Electrical component

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The data shown are typical values and are not intended to represent specifications. Their aim is to guide the user toward a material choice.

Not all material sizes shown within the availability programme of this data sheet are available as standard.

Please contact ABG Rubber and Plastics Ltd for further details.