

## Typical Properties **TB65OPS**

*Epoxy syntactic for use as high quality tooling block*

Property	Test Method	Value	SI Units	Value	Imp Units
Colour		Green	-		-
Density	BS EN ISO 1183-3:1999	680	kg/m <sup>3</sup>	43	lb/ft <sup>3</sup>
Depth Rating at 10°C		3,000	MSW	9,840	FSW
Maximum Dry Service Temperature	-	100	°C	212	°F
Maximum Wet Service Temperature	-	100	°C	212	°F
Shore Hardness	ISO 868:1998	69	°D	69	°
Tensile Strength	BS EN ISO 527	31.4	MPa	4,550	lb/in <sup>2</sup>
Youngs Modulus	BS EN ISO 527	1,116	MPa	161,860	lb/in <sup>2</sup>
Flexural Strength	BS EN ISO 178	41.7	MPa	6,040	lb/in <sup>2</sup>
Flexural Modulus	BS EN ISO 178	1,816	MPa	263,400	lb/in <sup>2</sup>
Uniaxial Compressive Strength	BS EN ISO 604	45.5	MPa	6,600	lb/in <sup>2</sup>
Uniaxial Compressive Modulus	BS EN ISO 604	1,490	MPa	216,100	lb/in <sup>2</sup>
Shear Strength	BS 2782 340A	24,2	MPa	3,510	lb/in <sup>2</sup>
Hydrostatic Crush Pressure	ASTM D2736	760	bar	11000	lb/in <sup>2</sup>
Bulk Modulus	ASTM D2926	4,551	MPa	660,100	lb/in <sup>2</sup>
Thermal Conductivity	ASTM C518	0.127	W/mK	0.073	Btu/ft <sup>2</sup> h°F
Heat Distortion Temperature	BS 2782	111	°C	232	°F
Glass Transition Temperature	CRP TP-T002	117		243	
Coefficient of Thermal Expansion	BS 4618 3.1	38.0	x 10 <sup>-6</sup> 1°C	21,2	x 10 <sup>-6</sup> J°F
Izod Impact - Unnotched	BS EN ISO 187	9.8	KJ/m <sup>2</sup>	4.6	ft-lbf/in <sup>2</sup>
Izod Impact - Notched	BS EN ISO 187	0.9	KJ/m <sup>2</sup>	0,4	ft-lbf/in <sup>2</sup>

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