

**Material Specification
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www.rhnutall.co.uk

PETG**General Information**

Excellent impact strength Non hygroscopic – will not absorb moisture High hardness Excellent optical properties	High stiffness FDA approved Various thickness available
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Application

Screening – food industry Guards – sneeze guards, machine guards, face shields	Safety engineering Automotive industry
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Technical Properties	Unit	Test Method	Result
Physical Properties			
Water absorption until saturation 23 °C	%	ISO 62	0.20
Maximum service temp. Upper temp limit	°C		70
Maximum service temp. Upper temp limit	°C		65
Lower temp limit	°C		-40
Tensile modulus of elasticity	Mpa	ISO 527	>2200
Dielectric strength	kv/mm	IEC 60243	-
Specific gravity	g/cm ³	ISO 1183	1.27
Mechanical Properties			
Tensile strength	Mpa	ISO 527	55
Elongation at yield	%	ISO 527	5
Tensile strength at break	Mpa	ISO 527	>45
Unnotched impact strength	kJ/m ²	ISO 179/1eU	No break
Notch impact strength	kJ/m ²	ISO 180/1A	11.5
Ball indentation/Rockwell hardness	Mpa	ISO 2039-2	R115
Shore-D	-	-	-
Flexural modulus of elasticity	Mpa	ISO 178	2100
Thermal Properties			
Vicat-softening point VST/B/50	°C	ISO 306	81
Heat deflection temperature HDT/B	°C	ISO 75	72
Coefficient of linear thermal expansion 23 °C-100 °C	mm/m x °C	ISO 11359-2	51x10exp-6
Thermal conductivity	W/mk	ISO 8302	0.19
Electrical Properties			
Volume resistivity	Ω x m	IEC 60093	10 exp16

The information given above is based upon average values and is no way intended as a warranty. The purchaser is deemed responsible for determining the suitability of the product for any application. All data relating to suitable uses and description information concerning our products are compiled from research and are believed to be reliable but are provided for guidance purposes only. The Company holds no legal or contractual responsibility for information supplied



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Surface Resistivity	Ω	IEC 60093	10 exp15
Dielectric constant at 1 MHz	-	IEC 60250	2.40
Dielectric loss factor at 1 MHz	-	IEC 60250	0.02
Comparative tracking index (CTI)	-	IEC 60112	-
Additional Data			
Bond ability	-	-	Yes
Food compliance – FDA	-	FDA	Yes
Food compliance – EU	-	EU 10/2011	No
Flammability			
Fire Performance	-	-	Yes

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