

performanceplastics

Trirex 3027U (M1)

Branched, Transparent, UV Stabilised, Extrusion grade Polycarbonate

PROPERTIES

Mechanical Properties

	Standard	Unit	3027U(M1)
Tensile Elongation at break	D638	%	100
Tensile strength at yield	D638	MPa	70
Flexural strength at yield	D790	MPa	90
Flexural modulus	D790	MPa	2060
Izod impact strength, notched	23°C 3.2mm D256	J/m	830

Thermal Properties

Melt Flow Rate	300C, 1.2kg D1238	g/10min	2
Heat deflection temperature HDT 1.8MPa	D648	°C	132
Coefficient of LTE	D696	mm/mm/°C	$5\sim 7 \times 10^{-5}$

Electrical Properties

Volume resistivity	D257	$\Omega \cdot \text{cm}$	4×10^{16}
Dielectric strength	D149	kV/mm	30
ARC resistance	D495	sec	120

General Properties

Density	D792	g/cm^3	1.2
Flammability (UL94)	1.6mm UL94	-	V2
Water absorption	23°C/sat D570	%	0.15
Haze	- D1003	-	0.4

The values quoted are the average of results obtained under laboratory conditions and are given only as an indication to enable customers to make use of our products.

Prospective users should determine the suitability of materials before adopting them on a commercial scale.

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