

Acrylic Cast

DirectPlastics

...not just a quicker delivery!

Colour: Clear/Opal

Density: 1.19g/cm³

Material Data Sheet

Mechanical Properties	Parameter	Value	Unit	DIN/EN/ISO
Tensile strength at yield	5mm/min	75	MPa	527
Elongation at break	5mm/min	4	%	527
Flexural strength at yield	2mm/min	116	MPa	178
Modulus of elasticity (flexural test)	2mm/min	3210	MPa	178
Izod impact Strength	Notched	N/A	kJm ⁻²	180/1A
Impact strength (Charpy)	Unnotched	12	kJ/m ²	179
Rockwell Hardness	-	102	M Scale	2039-2

Thermal Properties	Parameter	Value	Unit	DIN/EN/ISO
Vicat softening temperature	-	>110	°C	306
Coefficient of thermal expansion	-	0.077	Mm/m ⁰ C	D696

Electrical properties	Parameter	Value	Unit	DIN/IEC
Surface resistance	-	>10 ¹⁴	Ωm ⁻²	93
Dielectric strength	-	15	kV/mm-1	243

Other properties	Parameter	Value	Unit	DIN/EN/ISO/IEC
Water absorption	-	0.2	%	62
Flammability	-	Class 3	-	BS476 Part 7
Flammability	-	M4 (without Drips)	-	NFP 92-307
Flammability	-	HB	-	UL94



Direct Plastics Ltd. Unit 14 Portland Business Park, Richmond Park Road, Sheffield, S13 8HS

Tel: 0114 2560889 Email: sales@directplastics.co.uk

The following information corresponds with our current knowledge and indicates our products and possible applications. We cannot give a legally binding guarantee of certain properties or the suitability for a specific application. Existing commercial patents must be observed. A definitive quality guarantee is given in our general conditions of sales.

Unless otherwise stated, these values represent averages taken from injection moulding samples.

We reserve the right of technical alterations.