



SPECIFICATION SHEET

**PP0 - Cast Acrylic Perspex®**

Properties	Test Method	Unit	Results
<b>General Properties</b>			
Density	ISO 1183	cm <sup>3</sup>	1.19
Rockwell hardness	ISO 2039-2	M Scale	102
Water absorption	ISO 62	%	0.2
Flammability	BS476 Part 7 DIN 4102 NFP 92-507 UL94 ISO 11925-2	- - - - -	3 B2 M4 HB E
<b>Optical Properties</b>			
Light Transmission	ASTSM D1003	% (3 mm)	< 92
Refractive index	ISO 489 A	-	1.49
<b>Thermal Properties</b>			
Vicat softening Point	ISO 306 A	°C	< 110
Coefficient of thermal Expansion (linear)	ASTM D696	X 10 <sup>-5</sup> . K <sup>-1</sup>	7.7
<b>Mechanical Properties</b>			
Tensile Strength	ISO 527 (5mm/min)	MPa	75
Elongation at Break	ISO 527 (5mm/min)	%	4
Flexural Strength	ISO 178 (2mm/min)	MPa	116
Flexural Modulus	ISO 178 (2mm/min)	MPa	3210
Impact Strength – Charpy (notched)	ISO 179	kJ M <sup>-2</sup>	12
Poisson's ratio	ISO 179	kJ M <sup>-2</sup>	0.38

<b>Electrical Properties</b>			
Surface Resistivity	IEC 93	$\Omega.m^{-2}$	$<10^{14}$
Electrical strength	IEC 243	kV.mm <sup>-1</sup>	15

**QUALITY ASSURED PRODUCTS WITH FULL TRACEABILITY**

Care should be taken in selecting the most suitable quality for each application.

Advice is available but final responsibility remains with the customer.