

# Acrystar Properties



## Typical Properties

Property	Test Method	Units	Values
<b>GENERAL</b>			
Relative density	ISO 1183	g/cm <sup>3</sup>	1.19
Water absorption	ISO 62	%	0.3
<b>OPTICAL</b>			
Refractive index	ISO 489A	-	1.49
Light transmission	ASTM D 1003	% (3 mm)	>92
<b>MECHANICAL</b>			
Tensile strength @ 23°C	ISO 527	MPa	70
Elongation at break @ 23°C	ISO 527	%	4
Flexural strength	ISO 178	MPa	114
Flexural modulus	ISO 178	MPa	3200
Impact strength – charpy-unnotched	ISP 179 / I fu	kJ·m <sup>-2</sup>	12
Rockwell hardness	ISO 2039-2	kJ·m <sup>-2</sup>	1.4
<b>THERMAL</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
Flammability UL94 HB	UL 94	-	HB
<b>ELECTRICAL</b>			
Surface resistivity	IEC 93	Ω	>10 <sup>14</sup>
Electrical strength	IEC 243	kV/mm	30

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.