

# A-Cast EG Acrylic



## Typical Properties

Property	Units	OPTIX
<b>PHYSICAL</b>		
Specific gravity	-	1.19
Hardness	-	HNC - 96
Water absorption	%	0.35
Transmittance: full rays	%	93.3
Transmittance: parallel rays	%	HAZE = 0.27
<b>MECHANICAL</b>		
Tensile strength @ yield	Kg/cm <sup>2</sup>	709
Tensile strength @ break	Kg/cm <sup>2</sup>	696
Tensile modulus	Kg/cm <sup>2</sup>	29,532
Elongation at break	%	8
Flexural strength	Kg/cm <sup>2</sup>	1,052
Flexural modulus	Kg/cm <sup>2</sup>	31,264
Impact strength	Kg/cm <sup>2</sup>	1.1
Shear strength	Kg/cm <sup>2</sup>	600 - 650
<b>THERMAL</b>		
Specific heat	Cal/g/°C	0.35
Heat distortion temperature (4.6kg/cm)	°C	100
Coefficient of heat conductivity	Cal/s.cm <sup>2</sup>	4.5 x 10 <sup>-4</sup>
Coefficient of linear expansion	Cm/cm/°C	6.5 x 10 <sup>-5</sup>
Ultimate temperature of continuous operation	°C	60 - 90
Flammability	Mm/min	33
Surface resistivity at 28°C	Ohm	> 10 <sup>16</sup>
Volume resistivity	Ohm·cm	> 10 <sup>15</sup>
Thermoforming ranges	°C	140 - 180
Dielectric strength	Kv/Mm	20