

## ZENOPLEX GP - GENERAL PURPOSE ACRYLIC

ZENOPLEX GP PROPERTIES	VALUE	UNIT	TEST METHOD
<b>GENERAL</b>			
Density	1.19	g/cm <sup>3</sup>	ISO 1183-1:2019 Method A
Water Absorption	0.3	%	ISO 62:2008
<b>MECHANICAL</b>			
Tensile Strength	70	MPa	ISO 527-2:2012
Tensile Strain at Break	4	%	ISO 527-2:2012
Tensile Modulus	3000	MPa	ISO 527-2:2012
Flexural Strength	110	MPa	ISO 178:2019 Method A,B
Flexural Modulus	3000	MPa	ISO 178:2019 Method A,B
Charpy Impact Strength, Notched	1.8	kJ/m <sup>2</sup>	ISO 179-1:2010
Izod Impact Strength, Notched	1.5	kJ/m <sup>2</sup>	ISO 180:2000+Amd.2:2013
Rockwell Hardness, L-scale	N/A		ASTM D785
Rockwell Hardness, M-scale	100		ASTM D785
Rockwell Hardness, R-scale	N/A		ASTM D785
<b>THERMAL</b>			
Vicat Softening Temperature	109	°C	ISO 306:2013
Heat Deflection Temperature, 1.82MPa	101	°C	ISO 75-2:2013
Coefficient of Linear Thermal Expansion	7	m/m.K x 10 <sup>-5</sup>	DIN53752
Self Ignition Temperature	420	°C	ASTM D 1929
Flash Ignition Temperature	340	°C	ASTM D 1929
Glow Wire Ignition Temperature (4.3mm)	725	°C	IEC 60695-2-13:2010+A1:2014
Burning Behaviour, Vertical	N/A		UL 94-2013/ Rev.9-2018 Section 8
Burning Behaviour, Horizontal	HB		UL 94-2013/ Rev.9-2018 Section 7
Continuous Service Temperature	85	°C	
Short Term Service Maximum Temperature	95	°C	
Moulding Range	195-235	°C	
<b>OPTICAL</b>			
Light Transmission Clear (3 mm)	92	%	520nm
Light Transmission Grey (3 mm)	N/A	%	520nm
Light Transmission Opal (3mm)	25	%	520nm
Refractive Index	1.49	n <sub>D</sub>	DIN5036-3
Haze	<0.5	%	ASM D1003

**Product Disclaimer:** This information provides reliable and accurate data to the best of our knowledge at the time of publishing. Due to our inability to control conditions of use and application, we are unable to make any recommendations or suggestions. The EGR Group (Oakmoore Pty Ltd) assumes no liability for use of information presented herein.