

ZENOPLEX IM - IMPACT MODIFIED ACRYLIC

ZENOPLEX IM PROPERTIES	VALUE	UNIT	TEST METHOD
GENERAL			
Density	1.17	g/cm ³	ISO 1183-1:2019 Method A
Water Absorption	0.3	%	ISO 62:2008
MECHANICAL			
Tensile Strength	61.5	MPa	ISO 527-2:2012
Tensile Strain at Break	16	%	ISO 527-2:2012
Tensile Modulus	2270	MPa	ISO 527-2:2012
Flexural Strength	84.5	MPa	ISO 178:2019 Method A,B
Flexural Modulus	2440	MPa	ISO 178:2019 Method A,B
Charpy Impact Strength, Notched	4.6	kJ/m ²	ISO 179-1:2010
Izod Impact Strength, Notched	4.5	kJ/m ²	ISO 180:2000+Amd.2:2013
Rockwell Hardness, L-scale	100		ASTM D785
Rockwell Hardness, M-scale	N/A		ASTM D785
Rockwell Hardness, R-scale	N/A		ASTM D785
THERMAL			
Vicat Softening Temperature	99	°C	ISO 306:2013
Heat Deflection Temperature, 1.82MPa	84	°C	ISO 75-2:2013
Coefficient of Linear Thermal Expansion	8.8	m/m.K x 10 ⁻⁵	DIN53752
Self Ignition Temperature	430	°C	ASTM D 1929
Flash Ignition Temperature	350	°C	ASTM D 1929
Glow Wire Ignition Temperature (4mm)	725	°C	IEC 60695-2-13:2010+A1:2014
Flammability (Vertical Burning)	N/A		UL 94-2013/ Rev.9-2018 Section 8
Flammability (Horizontal Burning)	HB		UL 94-2013/ Rev.9-2018 Section 7
Continuous Service Temperature	70	°C	
Short Term Service Maximum Temperature	80	°C	
Moulding Range	190-230	°C	
OPTICAL			
Light Transmission Clear (3 mm)	91	%	520nm
Light Transmission Grey (3 mm)	60	%	520nm
Light Transmission Opal (3 mm)	25	%	520nm
Refractive Index	1.49	n _D	DIN5036-3
Haze	2	%	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.