



ACRYPLEX BLU

OPTICAL GRADE EXTRUDED ACRYLIC

GENERAL			
Density	ISO1183	1.19 (0.0429)	g/cm ³ (lb/in ³)
Water Absorption	ISO62	0.3	%
MECHANICAL			
Tensile Strength	ISO527-2	70 (10152)	MPa (psi)
Elongation at Break	ISO527-2	4	%
Tensile Modulus	ISO527-2	3000 (435097)	MPa (psi)
Flexural Strength	ISO178	110 (15956)	MPa (psi)
Flexural Modulus	ISO178	3000 (435097)	MPa (psi)
Charpy Impact Strength, Notched	ISO179-1	1.2 (0.57)	kJ/m ² (ft-lb/in ²)
Izod Impact Strength, Notched	ISO180/1A	-	kJ/m ² (ft-lb/in ²)
THERMAL			
Vicat Softening Temperature, B50, Annealed	ISO306	100 (212)	°C (°F)
Heat Distortion Temperature, 1.8MPa	ISO75	-	°C (°F)
Linear Thermal Expansion	DIN53752	7	/°K x 10 ⁻⁵
Continuous Service Temperature	-	70 (158)	°C (°F)
Maximum Short Term Temperature	-	80 (176)	°C (°F)
Degradation Temperature	-	> 280 (> 536)	°C (°F)
OPTICAL			
Light Transmission (3mm / 0.118")	DIN5036-3	92	%
Refractive Index	DIN5036-3	1.49	-

This specification provides typical 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.



ACRYPLEX GP

GENERAL PURPOSE EXTRUDED ACRYLIC

GENERAL			
Density	ISO1183	1.19 (0.0429)	g/cm ³ (lb/in ³)
Water Absorption	ISO62	0.3	%
MECHANICAL			
Tensile Strength	ISO527-2	70 (10152)	MPa (psi)
Elongation at Break	ISO527-2	4	%
Tensile Modulus	ISO527-2	3000 (435097)	MPa (psi)
Flexural Strength	ISO178	110 (15956)	MPa (psi)
Flexural Modulus	ISO178	3000 (435097)	MPa (psi)
Charpy Impact Strength, Notched	ISO179-1	1.8 (0.856)	kJ/m ² (ft-lb/in ²)
Izod Impact Strength, Notched	ISO180/1A	1.5 (0.713)	kJ/m ² (ft-lb/in ²)
THERMAL			
Vicat Softening Temperature, B50, Annealed	ISO306	102 (215)	°C (°F)
Heat Distortion Temperature, 1.8MPa	ISO75	92 (197)	°C (°F)
Linear Thermal Expansion	DIN53752	7	/°K x 10 ⁻⁵
Continuous Service Temperature	-	70 (158)	°C (°F)
Maximum Short Term Temperature	-	80 (176)	°C (°F)
Degradation Temperature	-	> 280 (> 536)	°C (°F)
OPTICAL			
Light Transmission (3mm / 0.118')	DIN5036-3	92	%
Refractive Index	DIN5036-3	1.49	-

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ACRYPLEX IM100

IMPACT MODIFIED EXTRUDED ACRYLIC

GENERAL			
Density	ISO1183	1.15 (0.0415)	g/cm ³ (lb/in ³)
Water Absorption	ISO62	0.3	%
MECHANICAL			
Tensile Strength	ISO527-2	40 (5801)	MPa (psi)
Elongation at Break	ISO527-2	25	%
Tensile Modulus	ISO527-2	1800 (261058)	MPa (psi)
Flexural Strength	ISO178	65 (9427)	MPa (psi)
Flexural Modulus	ISO178	1800 (261058)	MPa (psi)
Charpy Impact Strength, Notched	ISO179-1	7 (3.3)	kJ/m ² (ft-lb/in ²)
Izod Impact Strength, Notched	ISO180/1A	7 (3.3)	kJ/m ² (ft-lb/in ²)
THERMAL			
Vicat Softening Temperature, B50, Annealed	ISO306	95 (203)	°C (°F)
Heat Distortion Temperature, 1.8MPa	ISO75	76 (168)	°C (°F)
Linear Thermal Expansion	DIN53752	11	/°K x 10 ⁻⁵
Continuous Service Temperature	-	65 (149)	°C (°F)
Maximum Short Term Temperature	-	75 (167)	°C (°F)
Degradation Temperature	-	> 280 (> 536)	°C (°F)
OPTICAL			
Light Transmission (3mm / 0.118")	DIN5036-3	90	%
Refractive Index	DIN5036-3	1.49	-

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ACRYPLEX IM50

IMPACT MODIFIED EXTRUDED ACRYLIC

GENERAL			
Density	ISO1183	1.17 (0.0422)	g/cm ³ (lb/in ³)
Water Absorption	ISO62	0.3	%
MECHANICAL			
Tensile Strength	ISO527-2	55 (7976)	MPa (psi)
Elongation at Break	ISO527-2	15	%
Tensile Modulus	ISO527-2	2300 (333575)	MPa (psi)
Flexural Strength	ISO178	85 (12327)	MPa (psi)
Flexural Modulus	ISO178	2300 (333575)	MPa (psi)
Charpy Impact Strength, Notched	ISO179-1	3 (1.427)	kJ/m ² (ft-lb/in ²)
Izod Impact Strength, Notched	ISO180/1A	4 (1.902)	kJ/m ² (ft-lb/in ²)
THERMAL			
Vicat Softening Temperature, B50, Annealed	ISO306	98 (208)	°C (°F)
Heat Distortion Temperature, 1.8MPa	ISO75	85 (185)	°C (°F)
Linear Thermal Expansion	DIN53752	8.5	/°K x 10 ⁻⁵
Continuous Service Temperature	-	70 (158)	°C (°F)
Maximum Short Term Temperature	-	80 (176)	°C (°F)
Degradation Temperature	-	> 280 (536)	°C (°F)
OPTICAL			
Light Transmission (3mm / 0.118")	DIN5036-3	91	%
Refractive Index	DIN5036-3	1.49	-

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