



# IMPAX FF PC

## FF TEXTURED EXTRUDED POLYCARBONATE

<b>GENERAL</b>			
Density	ISO1183	1.20 ( 0.04332 )	g/cm <sup>3</sup> ( lb/in <sup>3</sup> )
Water Absorption	ISO62	0.2	%
<b>MECHANICAL</b>			
Tensile Strength	ISO527-2	60 ( 8702 )	MPa ( psi )
Elongation at Break	ISO527-2	80	%
Tensile Modulus	ISO527-2	2300 ( 333575 )	MPa ( psi )
Flexural Strength	ISO178	90 ( 13052 )	MPa ( psi )
Flexural Modulus	ISO178	2300 ( 333575 )	MPa ( psi )
Charpy Impact Strength, Notched	ISO179-1	40 ( 19.02 )	kJ/m <sup>2</sup> ( ft-lb/in <sup>2</sup> )
Izod Impact Strength, Notched	ISO180/1A	70 ( 33 )	kJ/m <sup>2</sup> ( ft-lb/in <sup>2</sup> )
<b>THERMAL</b>			
Vicat Softening Temperature, B50, Annealed	ISO306	135 ( 275 )	°C ( °F )
Heat Distortion Temperature, 1.8MPa	ISO75	125 ( 257 )	°C ( °F )
Linear Thermal Expansion	DIN53752	7	/°K x 10 <sup>-5</sup>
Continuous Service Temperature	-	110 ( 230 )	°C ( °F )
Maximum Short Term Temperature	-	120 ( 248 )	°C ( °F )
Degradation Temperature	-	> 280 ( > 536 )	°C ( °F )
<b>OPTICAL</b>			
Light Transmission (3mm / 0.118")	DIN5036-3	86	%
Refractive Index	DIN5036-3	1.59	-

*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.*



# IMPAX GP PC

## GENERAL PURPOSE EXTRUDED POLYCARBONATE

<b>GENERAL</b>			
Density	ISO1183	1.20 ( 0.04332 )	g/cm <sup>3</sup> ( lb/in <sup>3</sup> )
Water Absorption	ISO62	0.2	%
<b>MECHANICAL</b>			
Tensile Strength	ISO527-2	60 ( 8702 )	MPa ( psi )
Elongation at Break	ISO527-2	80	%
Tensile Modulus	ISO527-2	2300 ( 333575 )	MPa ( psi )
Flexural Strength	ISO178	90 ( 13052 )	MPa ( psi )
Flexural Modulus	ISO178	2300 ( 333575 )	MPa ( psi )
Charpy Impact Strength, Notched	ISO179-1	40 ( 19.02 )	kJ/m <sup>2</sup> ( ft-lb/in <sup>2</sup> )
Izod Impact Strength, Notched	ISO180/1A	70 ( 33 )	kJ/m <sup>2</sup> ( ft-lb/in <sup>2</sup> )
<b>THERMAL</b>			
Vicat Softening Temperature, B50, Annealed	ISO306	135 ( 275 )	°C ( °F )
Heat Distortion Temperature, 1.8MPa	ISO75	125 ( 257 )	°C ( °F )
Linear Thermal Expansion	DIN53752	7	/°K x 10 <sup>-5</sup>
Continuous Service Temperature	-	110 ( 230 )	°C ( °F )
Maximum Short Term Temperature	-	120 ( 248 )	°C ( °F )
Degradation Temperature	-	> 280 ( > 536 )	°C ( °F )
<b>OPTICAL</b>			
Light Transmission (3mm / 0.118")	DIN5036-3	86	%
Refractive Index	DIN5036-3	1.59	-

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# IMPAX RWC PC

## RWC TEXTURED EXTRUDED POLYCARBONATE

<b>GENERAL</b>			
Density	ISO1183	1.20 ( 0.04332 )	g/cm <sup>3</sup> ( lb/in <sup>3</sup> )
Water Absorption	ISO62	0.2	%
<b>MECHANICAL</b>			
Tensile Strength	ISO527-2	60 ( 8702 )	MPa ( psi )
Elongation at Break	ISO527-2	80	%
Tensile Modulus	ISO527-2	2300 ( 333575 )	MPa ( psi )
Flexural Strength	ISO178	90 ( 13052 )	MPa ( psi )
Flexural Modulus	ISO178	2300 ( 333575 )	MPa ( psi )
Charpy Impact Strength, Notched	ISO179-1	40 ( 19.02 )	kJ/m <sup>2</sup> ( ft-lb/in <sup>2</sup> )
Izod Impact Strength, Notched	ISO180/1A	70 ( 33 )	kJ/m <sup>2</sup> ( ft-lb/in <sup>2</sup> )
<b>THERMAL</b>			
Vicat Softening Temperature, B50, Annealed	ISO306	135 ( 275 )	°C ( °F )
Heat Distortion Temperature, 1.8MPa	ISO75	125 ( 257 )	°C ( °F )
Linear Thermal Expansion	DIN53752	7	/°K x 10 <sup>-5</sup>
Continuous Service Temperature	-	110 ( 230 )	°C ( °F )
Maximum Short Term Temperature	-	120 ( 248 )	°C ( °F )
Degradation Temperature	-	> 280 ( > 536 )	°C ( °F )
<b>OPTICAL</b>			
Light Transmission (3mm / 0.118")	DIN5036-3	86	%
Refractive Index	DIN5036-3	1.59	-

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# IMPAX UV PC

## UV PROTECTED EXTRUDED POLYCARBONATE

<b>GENERAL</b>			
Density	ISO1183	1.20 ( 0.04332 )	g/cm <sup>3</sup> ( lb/in <sup>3</sup> )
Water Absorption	ISO62	0.2	%
<b>MECHANICAL</b>			
Tensile Strength	ISO527-2	60 ( 8702 )	MPa ( psi )
Elongation at Break	ISO527-2	80	%
Tensile Modulus	ISO527-2	2300 ( 333575 )	MPa ( psi )
Flexural Strength	ISO178	90 ( 13052 )	MPa ( psi )
Flexural Modulus	ISO178	2300 ( 333575 )	MPa ( psi )
Charpy Impact Strength, Notched	ISO179-1	40 ( 19.02 )	kJ/m <sup>2</sup> ( ft-lb/in <sup>2</sup> )
Izod Impact Strength, Notched	ISO180/1A	70 ( 33 )	kJ/m <sup>2</sup> ( ft-lb/in <sup>2</sup> )
<b>THERMAL</b>			
Vicat Softening Temperature, B50, Annealed	ISO306	135 ( 275 )	°C ( °F )
Heat Distortion Temperature, 1.8MPa	ISO75	125 ( 257 )	°C ( °F )
Linear Thermal Expansion	DIN53752	7	/°K x 10 <sup>-5</sup>
Continuous Service Temperature	-	110 ( 230 )	°C ( °F )
Maximum Short Term Temperature	-	120 ( 248 )	°C ( °F )
Degradation Temperature	-	> 280 ( > 536 )	°C ( °F )
<b>OPTICAL</b>			
Light Transmission (3mm / 0.118")	DIN5036-3	86	%
Refractive Index	DIN5036-3	1.59	-

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