

# Technical Data Sheet



## PC-IM-FF Injection Moulding Grade, Frosted Finish Polycarbonate

Property	Test Method	Units	Grade		
			PC-IM-FF		
General	Density	ISO 1183	g/cm <sup>3</sup>	<b>1.20</b>	
	Water Absorption (23°C, Underwater)		%	<b>0.24</b>	
	Mould Shrinkage 3.2mmt	Machine direction		%	<b>0.5 – 0.7</b>
		Transverse direction		%	<b>0.5 – 0.7</b>
	Glow Wire Temperature 3.2mm	GWFI		°C	<b>960*</b>
GWIT			°C	<b>875*</b>	
Thermal	Melt Volume-flow Rate (300°C, 1.2Kg)	ISO 1133	cm <sup>3</sup> / 10 min	<b>11-17</b>	
	Temperature of Deflection under Load (1.80MPa) (0.45MPa)	ISO 75-1	°C	<b>129</b>	
		ISO 75-2	°C	<b>143</b>	
Coefficient of Linear Thermal Expansion (MD) (TD)	ISO 11359-2	1/°C	<b>6.5E-5</b> <b>6.6E-5</b>		
Mechanical	Tensile Modulus	ISO 527-1	MPa	<b>2400</b>	
	Yield Stress			<b>61</b>	
	Yield Strain	ISO-527-2	%	<b>5.6</b>	
	Nominal Strain at Break			<b>113</b>	
	Flexural Strength	ISO 178	MPa	<b>93</b>	
	Flexural Modulus			<b>2300</b>	
	Charpy Impact Strength (23°C)	ISO 179-1	KJ/m <sup>2</sup>	<b>NB</b>	
	Charpy Notched Impact Strength (23°C)	ISO 179-2		<b>76</b>	
Optical	Total Transmittance @ 3mm	Rapra	%	<b>68</b>	
	Total Transmittance @ 2mm			<b>76</b>	
	Haze @ 2 and 3mm	Rapra	%	<b>100</b>	

\* Base polymer values – compound under test

The values quoted are the average of results obtained under laboratory conditions and are given only as an indication to enable customers to make use of our products. Prospective users should determine the suitability of materials before adopting them on a commercial scale.

### Features

- Frosted Finish
- UV Absorbent
- Mould Release
- Easy Processing

Performance Plastics Ltd  
Tel. 01425 403543  
Fax 01425 403325  
Website [www.performance-plastics.co.uk](http://www.performance-plastics.co.uk)