

**EMERGE™ PC/ABS 7770**

(PC+ABS)

Trinseo

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt flow index, MFI	<b>20</b>	g/10min	ISO 1133
Temperature	<b>230</b>	°C	-
Load	<b>3.8</b>	kg	-
Molding shrinkage, parallel	<b>0.5</b>	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	<b>2900</b>	MPa	ISO 527
Yield stress	<b>70</b>	MPa	ISO 527
Yield strain	<b>5</b>	%	ISO 527
Stress at break	<b>50</b>	MPa	ISO 527
Strain at break	<b>25</b>	%	ISO 527
Flexural modulus, 23°C	<b>2900</b>	MPa	ISO 178
Charpy notched impact strength, +23°C	<b>7</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	<b>7</b>	kJ/m <sup>2</sup>	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>88</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>98</b>	°C	ISO 75-1/-2
Vicat softening temperature, A	<b>113</b>	°C	ISO 306
Vicat softening temperature, B	<b>105</b>	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	<b>V-0</b>	class	IEC 60695-11-10
Thickness tested	<b>1.6</b>	mm	-

Other properties	Value	Unit	Test Standard
Density	<b>1200</b>	kg/m <sup>3</sup>	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	<b>80 - 90</b>	°C	-
Pre-drying - Time	<b>3 - 4</b>	h	-
Melt temperature	<b>240 - 280</b>	°C	-
Mold temperature	<b>40 - 80</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Flame retardant, Heat stabilized or stable to heat

**Applications**

IT / Business Machine, Electrical and Electronical

**Regional Availability**

Asia Pacific, South and Central America