

## FORTRON® 1140T4 - PPS

### Description

Fortron® 1140T4 is a 40% glass filled, impact modified grade for injection molding with good thermal shock resistance.

<b>Physical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	101	lb/ft <sup>3</sup>	ISO 1183
<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Tensile modulus	2.1E6	psi	ISO 527-1, -2
Tensile stress at break, 5mm/min	26800	psi	ISO 527-1, -2
Tensile strain at break, 5mm/min	2.1	%	ISO 527-1, -2
Flexural modulus, 23°C	2.1E6	psi	ISO 178
Flexural strength, 23°C	39200	psi	ISO 178
Charpy impact strength, 23°C	28.5	ft-lb/in <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	6.66	ft-lb/in <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Melting temperature, 10°C/min	536	°F	ISO 11357-1/-3
Glass transition temperature, 10°C/min	194	°F	ISO 11357-1,-2,-3
DTUL at 1.8 MPa	509	°F	ISO 75-1, -2
Coeff. of linear therm expansion, parallel	0.0889	E-4/°F	ISO 11359-2
Coeff. of linear therm expansion, normal	0.267	E-4/°F	ISO 11359-2
Flammability @0.8mm nom. thickn. thickness tested (0.8)	V-0 0.0315	class in	UL 94 UL 94
<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Volume resistivity, 23°C	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity, 23°C	>1E15	Ohm	IEC 62631-3-2
Electric strength, 23°C (AC)	584	kV/in	IEC 60243-1
Comparative tracking index	Group IIIa	-	IEC 60112

### Typical injection moulding processing conditions

<b>Pre Drying</b>	<b>Value</b>	<b>Unit</b>
Necessary low maximum residual moisture content	0.02	%
Drying time	3 - 4	h
Drying temperature	266 - 284	°F
<b>Temperature</b>	<b>Value</b>	<b>Unit</b>
Hopper temperature	68 - 86	°F
Zone1 temperature	572 - 608	°F
Zone2 temperature	590 - 608	°F
Zone3 temperature	590 - 626	°F
Zone4 temperature	590 - 626	°F
Nozzle temperature	590 - 626	°F
Melt temperature	590 - 626	°F
Mold temperature	284 - 320	°F
Hot runner temperature	590 - 626	°F
<b>Pressure</b>	<b>Value</b>	<b>Unit</b>
Back pressure max.	30	bar



## **FORTRON® 1140T4 - PPS**

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### **Speed**

Injection speed

### **Value**

fast

### **Screw Speed**

Screw speed diameter, 25mm

### **Value**

120

RPM

Screw speed diameter, 40mm

75

RPM

Screw speed diameter, 55mm

50

RPM

### **Characteristics**

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#### **Special Characteristics**

Flame retardant

#### **Product Categories**

Glass reinforced, Impact modified

#### **Processing**

Injection molding

