

## FORTRON® 1130T4 - PPS

### Description

Fortron® 1130T4 is a 30% glass filled, impact modified grade for injection molding with good thermal shock resistance.

Physical properties	Value	Unit	Test Standard
Density	94.3	lb/ft³	ISO 1183
Water absorption, 23°C-sat	0.02	%	Sim. to ISO 62
Mechanical properties	Value	Unit	Test Standard
Tensile modulus	1.6E6	psi	ISO 527-1, -2
Tensile stress at break, 5mm/min	23200	psi	ISO 527-1, -2
Tensile strain at break, 5mm/min	2.3	%	ISO 527-1, -2
Flexural modulus, 23°C	1.45E6	psi	ISO 178
Flexural strength, 23°C	34800	psi	ISO 178
Charpy impact strength, 23°C	28.5	ft-lb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	6.18	ft-lb/in²	ISO 179/1eA
Charpy notched impact strength, -30°C	4.76	ft-lb/in²	ISO 179/1eA
Rockwell hardness (M-Scale)	90	M-Scale	ISO 2039-2
Thermal properties	Value	Unit	Test Standard
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	500	°F	ISO 75-1, -2
Coeff. of linear therm expansion, parallel	0.1	E-4/°F	ISO 11359-2
Coeff. of linear therm expansion, normal	0.311	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
Electrical properties	Value	Unit	Test Standard
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)	533	kV/in	IEC 60243-1
Typical injection moulding processing conditions	Value	Unit	
Pre Drying	Value	Unit	
Necessary low maximum residual moisture content	0.02	%	
Drying time	3 - 4	h	
Drying temperature	266 - 284	°F	
Temperature	Value	Unit	
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	
Mold temperature	284 - 320	°F	
Hot runner temperature	590 - 626	°F	
Pressure	Value	Unit	
Back pressure max.	30	bar	



## **FORTRON® 1130T4 - 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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#### **Product Categories**

Glass reinforced, Impact modified

#### **Processing**

Injection molding

#### **Delivery Form**

Pellets

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