

## FORTRON® 0203 | PPS | Unfilled

### Description

A very easy flowing unfilled grade. This grade demonstrates excellent chemical resistance and thermal stability. Intended for extrusion applications that do not require high melt strength and for compounding with various fillers. Available as Fortron 0203B6 (granular powder), 0203P6 (pellets), and 0203C6 (crystallized pellets).

Physical properties	Value	Unit	Test Standard
Density	<b>1350</b>	kg/m <sup>3</sup>	ISO 1183
Water absorption (23°C-sat)	<b>0.02</b>	%	ISO 62

Mechanical properties	Value	Unit	Test Standard
Tensile modulus (1mm/min)	<b>4200</b>	MPa	ISO 527-2/1A
Tensile stress at break (5mm/min)	<b>33</b>	MPa	ISO 527-2/1A
Tensile strain at break (5mm/min)	<b>1</b>	%	ISO 527-2/1A
Flexural modulus (23°C)	<b>3900</b>	MPa	ISO 178
Flexural stress @ break	<b>135</b>	MPa	ISO 178
Unnotched impact str (Izod) @ 23°C	<b>8</b>	kJ/m <sup>2</sup>	ISO 180/1U
Notched impact strength (Izod) @ 23°C	<b>2.0</b>	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	<b>100</b>	M-Scale	ISO 2039-2

Thermal properties	Value	Unit	Test Standard
Melting temperature (10°C/min)	<b>280</b>	°C	ISO 11357-1,-2,-3
Glass transition temperature (10°C/min)	<b>90</b>	°C	ISO 11357-1,-2,-3
DTUL @ 1.8 MPa	<b>120</b>	°C	ISO 75-1/-2
DTUL @ 8.0 MPa	<b>95</b>	°C	ISO 75-1/-2
Coeff.of linear therm. expansion (parallel)	<b>0.55</b>	E-4/°C	ISO 11359-2
Coeff.of linear therm. expansion (normal)	<b>0.53</b>	E-4/°C	ISO 11359-2

Electrical properties	Value	Unit	Test Standard
Relative permittivity - 1 MHz	<b>4</b>	-	IEC 60250
Dissipation factor - 1 MHz	<b>84</b>	E-4	IEC 60250
Volume resistivity	<b>1E9</b>	Ohm*m	IEC 60093
Electric strength	<b>17</b>	kV/mm	IEC 60243-1
Comparative tracking index CTI	<b>100</b>	-	IEC 60112

Test specimen production	Value	Unit	Test Standard
Injection molding melt temperature	<b>295 - 330</b>	°C	ISO 294
Injection molding mold temperature	<b>135 - 160</b>	°C	ISO 294

Rheological Calculation properties	Value	Unit	Test Standard
Specific heat capacity of melt	<b>1830</b>	J/(kg K)	Internal



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