

Fortron® 0203

Polyphenylene Sulfide

Celanese Corporation

Message:

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).

General Information			
Features	Good Chemical Resistance		
	Good Flow		
	Good Thermal Stability		
Uses	Compounding		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
	Powder		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.40	g/cm ³	ASTM D792
--	1.35	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow	1.0 to 1.2	%	
Across Flow	0.80 to 1.0	%	
Water Absorption (Saturation, 23°C)	0.020	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
M-Scale	93		ASTM D785
M-Scale	100		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4200	MPa	ISO 527-2/1A/1
Tensile Strength			
Break, 23°C	86.2	MPa	ASTM D638
Break	33.0	MPa	ISO 527-2/1A/5
Tensile Elongation			
Break, 23°C	3.0	%	ASTM D638
Break	1.0	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	3900	MPa	ISO 178
Flexural Stress ¹	135	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	2.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	8.0	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Annealed	204	°C	ASTM D648
1.8 MPa, Unannealed	104	°C	ASTM D648
1.8 MPa, Unannealed	120	°C	ISO 75-2/A
8.0 MPa, Unannealed	95.0	°C	ISO 75-2/C
Glass Transition Temperature ²	90.0	°C	ISO 11357-2
Melting Temperature ³	280	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	5.5E-5	cm/cm/°C	
Transverse	5.3E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			
--	1.0E+16	ohms·cm	ASTM D257
--	1.0E+11	ohms·cm	IEC 60093
Dielectric Strength			
-- ⁴	18	kV/mm	ASTM D149
--	17	kV/mm	IEC 60243-1
Dielectric Constant			
1 kHz	3.00		ASTM D150
1 MHz	3.00		ASTM D150
1 MHz	4.00		IEC 60250
Dissipation Factor			
1 kHz	1.0E-3		ASTM D150
1 MHz	9.0E-4		ASTM D150
1 MHz	8.4E-3		IEC 60250
Arc Resistance	124	sec	ASTM D495
Comparative Tracking Index	100	V	IEC 60112
Fill Analysis	Nominal Value	Unit	Test Method
Specific Heat Capacity of Melt	1830	J/kg/°C	Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	110 to 120	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
NOTE			
1.	Break		
2.	10°C/min		
3.	10°C/min		
4.	Method A (Short-Time)		

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