Fortron® 0203

Celanese Corporation - Polyphenylene Sulfide

Tuesday, November 5, 2019

General Information

Product 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).

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant	• Good Flow	• Good Thermal Stability
Uses	• Compounding		
RoHS Compliance	• Contact Manufacturer		
Forms	• Pellets	• Powder	
Processing Method	• Extrusion		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm³	ISO 1183
Water Absorption (Saturation, 73°F)	0.020	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	609000	psi	ISO 527-2/1A
Tensile Stress (Break)	4790	psi	ISO 527-2/1A/5
Tensile Strain (Break)	1.0	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	566000	psi	ISO 178
Flexural Stress	19600	psi	ISO 178
Compressive Modulus	595000	psi	ISO 604
Compressive Stress (6% Strain)	18900	psi	ISO 604
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength (73°F)	0.95	ft·lb/in²	ISO 180/1A
Unnotched Izod Impact Strength (73°F)	3.8	ft·lb/in²	ISO 180/1U
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	100		ISO 2039-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (264 psi, Unannealed)	248	°F	ISO 75-2/A
Heat Deflection Temperature (1160 psi, Unannealed)	203	°F	ISO 75-2/C
Glass Transition Temperature [2]	194	°F	ISO 11357-2
Melting Temperature [2]	536	°F	ISO 11357-3
CLTE - Flow	3.1E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	2.9E-5	in/in/°F	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+11	ohms·cm	IEC 60093
Electric Strength	430	V/mil	IEC 60243-1
Relative Permittivity (1 MHz)	4.00		IEC 60250
Dissipation Factor (1 MHz)	8.4E-3		IEC 60250

Fortron® 0203

Celanese Corporation - Polyphenylene Sulfide

Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	100	V	IEC 60112

Fill Analysis	Nominal Value	Unit
Specific Heat Capacity of Melt	0.437	Btu/lb/°F

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	230 to 248	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 10°C/min