



Fortron® FX55T1 FC

Celanese Corporation - Polyphenylene Sulfide

Tuesday, November 5, 2019

General Information

Product Description

Fortron® FX55T1 FC is an unreinforced, impact-modified poly(phenylene sulfide) with high melt viscosity suitable for extrusion.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Latin America	• North America
Additive	• Impact Modifier		
Features	• High Viscosity	• Impact Modified	
RoHS Compliance	• Contact Manufacturer		
Processing Method	• Extrusion		

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.6	%	
Flow	1.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	334000	psi	ISO 527-2/1A/1
Tensile Stress (Break)	7250	psi	ISO 527-2/1A/50
Tensile Strain (Break)	40	%	ISO 527-2/1A/50
Flexural Modulus (73°F)	334000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	17	ft·lb/in ²	
73°F	29	ft·lb/in ²	
Charpy Unnotched Impact Strength (73°F)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	212	°F	ISO 75-2/A
Vicat Softening Temperature	320	°F	ISO 306/B50
Melting Temperature ²	536	°F	ISO 11357-3
CLTE - Flow	4.4E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	5.6E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	9.0E+16	ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	3.02		IEC 60250
Dissipation Factor (1 MHz)	3.0E-3		IEC 60250

Notes

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

² 10°C/min

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