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 • Europe	• Latin America • North America
Additive	• Impact Modifier	
Features	• High Viscosity	• Impact Modified
RoHS Compliance	• Contact Manufacturer	
Processing Method	• Extrusion	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm³	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/in²	
73°F	29	ft·lb/in²	
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