



Fortron® FX75T1

Celanese Corporation - Polyphenylene Sulfide

Tuesday, November 5, 2019

General Information

Product Description

Fortron® FX75T1 is an unreinforced, impact-modified poly(phenylene sulfide) with high melt viscosity suitable for extrusion.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• 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	1.20	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	2.1	%	
Flow	1.9	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	239000	psi	ISO 527-2/1A
Tensile Strain (Break)	80	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	42	%	ISO 527-2/1A/50
Flexural Modulus (73°F)	232000	psi	ISO 178
Flexural Stress (3.5% Strain)	7250	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	22	ft-lb/in ²	
73°F	33	ft-lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	203	°F	ISO 75-2/A
Vicat Softening Temperature			
--	518	°F	ISO 306/A50
--	248	°F	ISO 306/B50
CLTE - Flow	5.4E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	6.8E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+17	ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	3.24		IEC 60250
Dissipation Factor (1 MHz)	6.0E-4		IEC 60250

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	194	°F
Drying Time	4.0	hr
Rear Temperature	545 to 590	°F
Middle Temperature	572 to 608	°F
Front Temperature	572 to 608	°F
Nozzle Temperature	554 to 599	°F
Processing (Melt) Temp	554 to 608	°F

Injection Notes

Zone4 temperature: 295 to 320°C

Notes

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