



Fortron® 6162A7

Celanese Corporation - Polyphenylene Sulfide

Tuesday, November 5, 2019

General Information

Product Description

Fortron 6162A7 is a mineral/glass reinforced grade for applications requiring the highest flow.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass\Mineral		
Features	• High Flow		
RoHS Compliance	• Contact Manufacturer		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.92	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.40 to 0.80	%	
Flow	0.10 to 0.30	%	
Water Absorption (Saturation, 73°F)	0.017	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2.23E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	16700	psi	ISO 527-2/1A/5
Tensile Strain (Break)	1.3	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	2.10E+6	psi	ISO 178
Flexural Stress (73°F)	26800	psi	ISO 178
Flexural Strain at Break	1.5	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	3.7	ft-lb/in ²	
73°F	2.1	ft-lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	13	ft-lb/in ²	
73°F	7.6	ft-lb/in ²	
Notched Izod Impact Strength			ISO 180/1A
-22°F	4.2	ft-lb/in ²	
73°F	2.9	ft-lb/in ²	
Unnotched Izod Impact Strength (73°F)	8.6	ft-lb/in ²	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)	518	°F	ISO 75-2/A
Heat Deflection Temperature (1160 psi, Unannealed)	419	°F	ISO 75-2/C
Glass Transition Temperature ²	194	°F	ISO 11357-2
Melting Temperature ²	536	°F	ISO 11357-3
CLTE - Flow	1.1E-5	in/in/°F	ISO 11359-2

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Thermal	Nominal Value	Unit	Test Method
CLTE - Transverse	1.9E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Relative Permittivity (1 MHz)	5.68		IEC 60250
Dissipation Factor (1 MHz)	1.0E-3		IEC 60250
Comparative Tracking Index	225	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.031 in		V-0	
0.06 in		V-0	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	266 to 284	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Hopper Temperature	68 to 86	°F
Rear Temperature	554 to 572	°F
Middle Temperature	590 to 608	°F
Front Temperature	626 to 644	°F
Nozzle Temperature	590 to 626	°F
Processing (Melt) Temp	626 to 644	°F
Mold Temperature	284 to 320	°F
Injection Rate	Fast	
Back Pressure	< 435	psi

Injection Notes

Feeding zone temperature: 60 to 80°C
Zone4 temperature: 330 to 340°C
Hot runner temperature: 330 to 340°C

Notes

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

² 10°C/min