Fortron® 1200L1

Celanese Corporation - Polyphenylene Sulfide

Tuesday, November 5, 2019

General Information

Product Description

Fortron 1200L1 is an unfilled grade recommended primarily for extrusion applications. It has a high melt viscosity and tensile elongation. Recommended processing conditions are similar to those of our standard unfilled PPS grades.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• High Elongation	• High Viscosity	
RoHS Compliance	• Contact Manufacturer		
Processing Method	• Extrusion		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.6	%	
Flow	1.3	%	
Water Absorption (Saturation, 73°F)	0.020	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	580000	psi	ISO 527-2/1A
Tensile Stress (Break)	12800	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	3.0	%	ISO 527-2/1A/50
Tensile Strain (Break)	15	%	ISO 527-2/1A/50
Flexural Modulus (73°F)	595000	psi	ISO 178
Flexural Stress (73°F)	20500	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (73°F)	95	ft·lb/in²	ISO 179/1eU
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	93		ISO 2039-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Glass Transition Temperature [2]	194	°F	ISO 11357-2
Melting Temperature [2]	527	°F	ISO 11357-3
CLTE - Flow	2.2E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	2.3E-5	in/in/°F	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Electric Strength	760	V/mil	IEC 60243-1

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	%

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Notes

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

[2] 10°C/min