

Fortron® 1200L1

Polyphenylene Sulfide

Celanese Corporation

Message:

Fortron 1200L1 is an unfilled grade for extrusion applications, which has a high melt viscosity and tensile elongation. The recommended processing conditions are identical to those of our standard unfilled grades.

General Information			
UL YellowCard	E107854-100055580		
Features	High Elongation		
	High Viscosity		
RoHS Compliance	Contact Manufacturer		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm ³	ISO 1183
Water Absorption (Saturation, 23°C)	0.020	%	ISO 62
Viscosity	430	Pa · s	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	93		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	88.0	MPa	ISO 527-2/1A/50
Tensile Strain			ISO 527-2/1A/50
Yield	3.0	%	
Break	15	%	
Flexural Modulus (23°C)	4100	MPa	ISO 178
Flexural Stress (23°C)	141	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	200	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ¹	90.0	°C	ISO 11357-2
Melting Temperature ²	275	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	4.0E-5	cm/cm/°C	
Transverse	4.2E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Electric Strength	30	kV/mm	IEC 60243-1
Dielectric Constant			ASTM D150
10 kHz	3.00		

1 MHz	3.00	
Injection	Nominal Value	Unit
Drying Temperature	110 to 120	°C
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
NOTE		
1.	10°C/min	
2.	10°C/min	

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