

LONGLITE® PPS S1112-100

Chang Chun Plastics Co., Ltd. (CCP Group) - *Polyphenylene Sulfide*

General Information

Product Description

PPS S1112-100 is a 40% glass fiber/mineral reinforced and flame-retardant injection-molding grade PPS.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber\Mineral, 40% Filler by Weight
Additive	• Flame Retardant • Mold Release
Features	• Flame Retardant
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.64	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.50 to 0.80	%	
Flow	0.10 to 0.30	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	26100	psi	ISO 527-2
Tensile Strain (Break)	1.6	%	ISO 527-2
Flexural Modulus	1.89E+6	psi	ISO 178
Flexural Stress	37700	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	5.2	ft·lb/in ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	500	°F	ISO 75-2/A
Melting Temperature ²	545	°F	ISO 11357-3
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		Internal Method

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	248 to 284	°F
Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	0.040	%
Processing (Melt) Temp	572 to 608	°F
Mold Temperature	266 to 302	°F

Notes

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

² 10°C/min

