

Product Information

Polyphenylsulfone(PPSU)

Physical Form And Storage

PPSU pellets are supplied in cartons lining aluminum foil bag,which can be stored indefinitely,provided the packaging remains undamaged.

PPSU pellets absorb moisture very rapidly. Therefore, the pellets need to be dried at least 6h at 180 °C in a vacuum or dry air drier prior to processing.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose.Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product.



DONGGUAN SHENGWEN PLASTIC TRADING CO.,LTD.

PPSU Technical Data Sheet

Typical values for uncolored product at 23°C	Test Method	Unit	Typical values				
			F1150	F1250	F1350	F1550	M1150
Mechanical Properties							
Tensile Strength	ISO 527-1/-2	MPa	70	70	70	70	75
Tensile Modulus	ISO 527-1/-2	MPa	2270	2270	2270	2270	2690
Tensile Elongation (Yield)	ISO 527-1/-2	%	7.8	7.8	7.8	7.8	7.0
Flexural Strength	ISO 178	MPa	105	105	105	105	105
Flexural Modulus	ISO 178	MPa	2400	2400	2400	2400	2760
Notched Izod Impact	ISO 180/A	KJ/m ²	68	68	68	68	10.0
Thermal Properties							
HDT/A @1.8 MPa Heat Deflection Temperature	ISO 75-1/-2	°C	196	196	196	196	185
Tg, DSC, 10 °C/min Glass Transition Temperature	ISO 11357-1/-2	°C	220	220	220	220	—
@23°C, CLTE - Flow	ISO11359-1/-2	E-6/K	55	55	55	55	—
Flammability							
Flame Rating @ 1.5mm thickness	UL94	Class	V-0	V-0	V-0	V-0	—
Flame Rating @ 4.5mm thickness	UL94	Class	V-0	V-0	V-0	V-0	—
Electrical Properties							
100V Volume Resistivity	IEC 60093	Ω · m	>1E13	>1E13	>1E13	>1E13	>1E13
100V Surface Resistivity		Ω	>1E15	>1E15	>1E15	>1E15	>1E15
Dielectric Constant @100HZ, @1MHZ	IEC 60250	—	3.8 , 3.7	3.8 , 3.7	3.8 , 3.7	3.8 , 3.7	3.8 , 3.7
Dissipation factor @100HZ, @1MHZ	IEC 60250	—	15 , 86	15 , 86	15 , 86	15 , 86	15 , 86
Dielectric Strength K20/K20,(60*60*1 mm ³)	IEC 60243-1	KV/mm	44	44	44	44	44
CTI	IEC 60112	—	150	150	150	150	—
General Properties and Processability							
Density	ISO 1183	g/cm ³	1.29	1.29	1.29	1.29	1.28
Moisture Absorption, Equilibrium 23°C 50% r.h	ISO 62	%	0.6	0.6	0.6	0.6	0.3
Mold shrinkage (Flow)	ISO 2577, 294-4	%	0.9	0.9	0.9	0.9	0.9
Mold shrinkage (Vertical)		%	1.0	1.0	1.0	1.0	1.0
MFR @365°C/5kg	ISO 1133	g/10min	10-18	18-28	28-38	14-20	15-20
Processing (Melt) Temp, injection/Extrusion	—	°C	350-390	350-390	350-390	350-390	350-390
Mold Temp, injection Extrusion	—	°C	140-180	140-180	140-180	140-180	140-160

Notes:

Typical values: These are not to be construed as specifications.



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