

Product Information

Polyethersulfone(PES)

Physical Form And Storage

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

PES 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.

PES Technical Data Sheet

Typical values for uncolored product at 23°C	Test Method	Unit	Typical values				
			F2050	F2150	F2250	F2350	F2150GL20
Mechanical Properties							
Tensile Strength	ISO 527-1/-2	MPa	88	88	88	88	125
Tensile Modulus	ISO 527-1/-2	MPa	2700	2700	2700	2700	6900
Tensile Elongation (Yield)	ISO 527-1/-2	%	6.5	6.5	6.5	6.5	2.5
Flexural Strength	ISO 178	MPa	120	120	120	120	150
Flexural Modulus	ISO 178	MPa	2650	2650	2650	2650	6500
Notched Izod Impact	ISO 180/A	KJ/m ²	6.5	6.5	6.5	6.5	6.5
Thermal Properties							
HDT/A @1.8 MPa Heat Deflection Temperature	ISO 75-1/-2	°C	205	205	205	205	220
Tg, DSC, 10 °C/min Glass Transition Temperature	ISO 11357-1/-2	°C	225	225	225	225	—
@23°C, CLTE - Flow	ISO11359-1/-2	E-6/K	52	52	52	52	—
Flammability							
Flame Rating @ 1.5mm thickness	UL94	Class	V-0	V-0	V-0	V-0	V-0
Flame Rating @ 4.5mm thickness	UL94	Class	V-0	V-0	V-0	V-0	V-0
Electrical Properties							
100V Volume Resistivity	IEC 60093	Ω · m	>1E13	>1E13	>1E13	>1E13	>1E15
100V Surface Resistivity		Ω	>1E15	>1E15	>1E15	>1E15	>1E15
Dielectric Constant @100HZ, @1MHZ	IEC 60250	—	3.9 , 3.8	3.9 , 3.8	3.9 , 3.8	3.9 , 3.8	4.2, 4.2
Dissipation factor @100HZ, @1MHZ	IEC 60250	E-4	17,140	17,140	17,140	17,140	37,100
Dielectric Strength K20/K20,(60*60*1 mm ³)	IEC 60243-1	KV/mm	37	37	37	37	37
CTI	IEC 60112	—	125	125	125	125	125
General Properties and Processability							
Density	ISO 1183	g/cm ³	1.37	1.37	1.37	1.37	1.50
Moisture Absorption, Equilibrium 23°C 50% r.h	ISO 62	%	0.8	0.8	0.8	0.8	0.6
Mold shrinkage (Flow)	ISO 2577, 294-4	—	0.82	0.82	0.82	0.82	0.61
Mold shrinkage (Vertical)		—	0.86	0.86	0.86	0.86	—
MFR @365°C/5kg	ISO 1133	g/10min	5-15	15-25	25-35	35-45	15-20
Processing (Melt) Temp, injection/Extrusion	—	°C	350-390	350-390	350-390	350-390	340-390
Mold Temp, injection Extrusion	—	°C	140-180	140-180	140-180	140-180	130-180

Notes:

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



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