CELSTRAN® PPS-SF6-01 AF3005 Natural

CELSTRAN® Long Fibre

Celstran PPS-SF6-01 is a 6% long stainless fiber Polyphenylene Sulphide. This material imparts excellent static dissipative properties. Celstran stainless steel long fiber products provide much greater levels of conductivity than that of short fiber stainless materials.

Product information

Resin Identification	PPS-LMEF(x)6	ISO 1043
Part Marking Code	>PPS-LMEF(x)6<	ISO 11469

Typical mechanical properties

Tensile modulus	606000	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	6820	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.2	%	ISO 527-1/-2
Flexural modulus	608000	psi	ISO 178
Flexural strength	18600	psi	ISO 178
Charpy notched impact strength, 23 °C	0.618	ftlb/in²	ISO 179/1eA

Physical/Other properties

Density	0.0509	lb/in³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	284	°F
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.02	%
Melt Temperature Optimum	599	°F
Min. melt temperature	563	°F
Max. melt temperature	635	°F
Max. screw tangential speed	0.1 - 0.2	m/s
Mold Temperature Optimum	302	°F
Min. mold temperature	284	°F
Max. mold temperature	320	°F

Characteristics

Processing	Injection Molding
Additives	Nucleated
Special characteristics	Increased electrical conductivity, Anti-static, Static dissipative, Heat stabilized or stable to heat

Revised: 2025-07-10 Source: Celanese Materials Database

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