FORTRON® 6341L4

Polyphenylene sulfide

Fortron 6341L4 is a tribological-modified Fortron®-PPS containing 40% glass fibre. Fortron 6341L4 comprises the same mechanical properties like Fortron 1342L4, but with a different tribological adjustment.

Product information

Resin Identification	PPS-GF40		ISO 1043
Part Marking Code	>PPS-GF40<		ISO 11469

Typical mechanical properties

Tensile modulus	2.09E6	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	23900	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.6	%	ISO 527-1/-2
Flexural modulus	1.99E6	psi	ISO 178
Flexural strength	35500	psi	ISO 178
Charpy impact strength, 23°C	19	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	3.81	ftlb/in²	ISO 179/1eA
Izod notched impact strength, 23°C	3.81	ftlb/in²	ISO 180/1A

Thermal properties

Melting temperature, 10°C/min	536	°F	ISO 11357-1/-3
Glass transition temperature, 10°C/min	194	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	518	°F	ISO 75-1/-2
Temperature of deflection under load, 8 MPa	419	°F	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	0.11	E-4/°F	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	0.222	E-4/°F	ISO 11359-1/-2

Physical/Other properties

Water absorption, 2mm	0.02	%	Sim. to ISO 62
Density	0.0614	lb/in³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	266	°F
Drying Time, Dehumidified Dryer	2 - 4	h
Processing Moisture Content	≤0.02	%
Melt Temperature Optimum	626	°F
Min. melt temperature	590	°F
Max. melt temperature	644	°F
Max. screw tangential speed	0.2 - 0.3	m/s
Mold Temperature Optimum	302	°F
Min. mold temperature	284	°F
Max. mold temperature	320	°F
Hold pressure range	4350 - 10200	psi
Back pressure	435	psi

Revised: 2026-09-08 Source: Celanese Materials Database

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Characteristics

Processing	Injection Molding
Special characteristics	Flame retardant, Low wear / Low friction

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