

FORTRON® 6341L4 | PPS | Specialty

Description

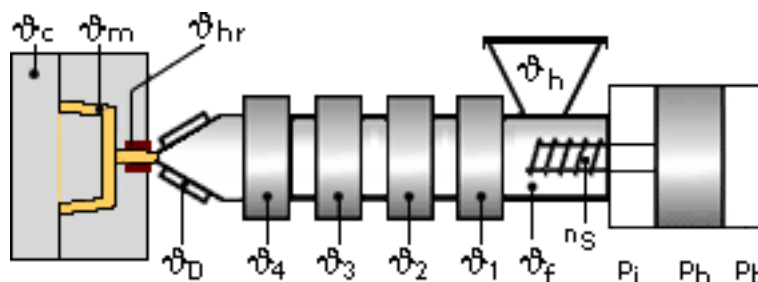
Fortron 6341L4 is a tribological-modified Fortron®-PPS containing 40% glass fibre. Fortron 6341L4 comprises the same mechanical properties like Fortron 1342L4, but with a different tribological adjustment.

Physical properties	Value	Unit	Test Standard
Density	1700	kg/m ³	ISO 1183
Water absorption (23°C-sat)	0.02	%	ISO 62

Mechanical properties	Value	Unit	Test Standard
Tensile modulus (1mm/min)	14400	MPa	ISO 527-2/1A
Tensile stress at break (5mm/min)	165	MPa	ISO 527-2/1A
Tensile strain at break (5mm/min)	1.6	%	ISO 527-2/1A
Flexural modulus (23°C)	13700	MPa	ISO 178
Flexural stress @ break	245	MPa	ISO 178
Charpy impact strength @ 23°C	40.0	kJ/m ²	ISO 179/1eU
Charpy notched impact strength @ 23°C	8.0	kJ/m ²	ISO 179/1eA
Notched impact strength (Izod) @ 23°C	8.0	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
Melting temperature (10°C/min)	280	°C	ISO 11357-1,-2,-3
Glass transition temperature (10°C/min)	90	°C	ISO 11357-1,-2,-3
DTUL @ 1.8 MPa	270	°C	ISO 75-1/-2
DTUL @ 8.0 MPa	215	°C	ISO 75-1/-2
Coeff.of linear therm. expansion (parallel)	0.2	E-4/°C	ISO 11359-2
Coeff.of linear therm. expansion (normal)	0.4	E-4/°C	ISO 11359-2

Typical injection moulding processing conditions



Pre Drying:

Drying time: 3 - 4 h

Drying temperature: 130 - 140 °C

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Temperature:

	ϑ _{Manifold}	ϑ _{Mold}	ϑ _{Melt}	ϑ _{Nozzle}	ϑ _{Zone4}	ϑ _{Zone3}	ϑ _{Zone2}	ϑ _{Zone1}	ϑ _{Feed}	ϑ _{Hopper}
min (°C)	330	140	330	310	330	330	310	290	60	20
max (°C)	340	160	340	330	340	340	320	300	80	30

Pressure:

	Inj press	Hold press	Back pressure
min (bar)	500	300	0
max (bar)	1000	700	30

Speed:

Screw speed

Screw diameter (mm)	16	25	40	55	75
Screw speed (RPM)	-	120	75	50	-

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General Disclaimer

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colorants or other additives may cause significant variations in data values.

Properties of molded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use.

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We strongly recommend that users seek and adhere to the manufacturer's current instructions for handling each material they use, and entrust the handling of such material to adequately trained personnel only. Please call the telephone numbers listed (+49 (0) 69 30516299 for Europe and +1 859-372-3244 for the Americas) for additional technical information. Call Customer Services for the appropriate Materials Safety Data Sheets (MSDS) before attempting to process our products.

The products mentioned herein are not intended for use in medical or dental implants.

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