

FORTRON® 6345L4 - PPS

Description

Low Wear and Coefficient of Friction; variant of 1342L4

Fortron 6345L4 is 30% glass fiber/high PTFE reinforced injection molding grade. This grade, available in natural color, exhibits improved wear and sliding properties versus 1342L4 product.

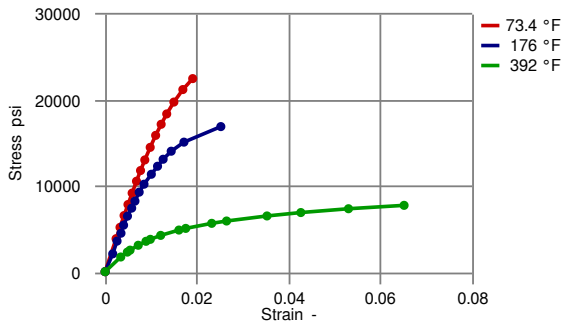
Physical properties	Value	Unit	Test Standard
Density	104	lb/ft ³	ISO 1183
Molding shrinkage, parallel (flow)	0.3 - 0.5	%	ISO 294-4, 2577
Molding shrinkage, transverse normal	0.6 - 0.9	%	ISO 294-4, 2577
Humidity absorption, 23°C/50%RH	0.02	%	ISO 62

Mechanical properties	Value	Unit	Test Standard
Tensile stress at break, 5mm/min	21800	psi	ISO 527-1, -2
Tensile strain at break, 5mm/min	1.9	%	ISO 527-1, -2
Flexural modulus, 23°C	1.54E6	psi	ISO 178
Flexural strength, 23°C	33400	psi	ISO 178
Izod impact notched, 23°C	4.28	ft-lb/in ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
DTUL at 1.8 MPa	500	°F	ISO 75-1, -2
DTUL at 8.0 MPa	374	°F	ISO 75-1, -2

Diagrams

True Stress-strain



Typical injection moulding processing conditions

Pre Drying	Value	Unit
Necessary low maximum residual moisture content	0.02	%
Drying time	3 - 4	h



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Drying temperature	266 - 284	°F
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Temperature	Value	Unit
Hopper temperature	68 - 86	°F
Feeding zone temperature	140 - 176	°F
Zone1 temperature	554 - 572	°F
Zone2 temperature	590 - 608	°F
Zone3 temperature	626 - 644	°F
Zone4 temperature	626 - 644	°F
Nozzle temperature	590 - 626	°F
Melt temperature	626 - 644	°F
Mold temperature	284 - 320	°F
Hot runner temperature	626 - 644	°F

Pressure	Value	Unit
Back pressure max.	30	bar

Speed	Value
Injection speed	fast

Screw Speed	Value	Unit
Screw speed diameter, 25mm	120	RPM
Screw speed diameter, 40mm	75	RPM
Screw speed diameter, 55mm	50	RPM

Other text information

Pre-drying

FORTRON should in principle be predried. Because of the necessary low maximum residual moisture content the use of dry air dryers is recommended. The dew point should be $\leq -30^{\circ}\text{C}$. The time between drying and processing should be as short as possible.

Longer pre-drying times/storage

For subsequent storage the material should be stored dry in the dryer until processed ($\leq 60\text{ h}$).

Characteristics

Special Characteristics	Wear resistant
Product Categories	Specialty, Tribological
Processing	Injection molding

