

FORTRON® ICE 716L | PPS | Specialty

Description

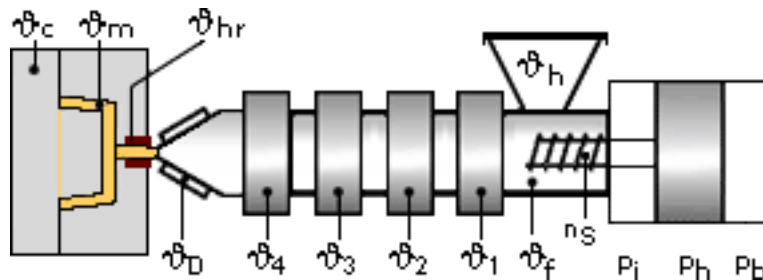
FORTRON ICE 716L is a 65% glass/mineral filled material that belongs to our new generation of PPS. This new technology allows you to optimize your molding conditions with faster cycle times for complex shapes or process with low mold temperatures.

Physical properties	Value	Unit	Test Standard
Density	1950	kg/m ³	ISO 1183
Mold shrinkage - parallel	0.2 - 0.5	%	ISO 294-4
Mold shrinkage - normal	0.3 - 0.6	%	ISO 294-4
Water absorption (23°C-sat)	0.02	%	ISO 62

Mechanical properties	Value	Unit	Test Standard
Tensile modulus (1mm/min)	21500	MPa	ISO 527-2/1A
Tensile stress at break (5mm/min)	160	MPa	ISO 527-2/1A
Tensile strain at break (5mm/min)	1.2	%	ISO 527-2/1A
Flexural modulus (23°C)	21000	MPa	ISO 178
Flexural strength (23°C)	260	MPa	ISO 178
Charpy impact strength @ 23°C	30.0	kJ/m ²	ISO 179/1eU
Charpy notched impact strength @ 23°C	10.0	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
DTUL @ 1.8 MPa	270	°C	ISO 75-1/-2
DTUL @ 8.0 MPa	220	°C	ISO 75-1/-2
Coeff.of linear therm. expansion (parallel)	0.14	E-4/°C	ISO 11359-2
Coeff.of linear therm. expansion (normal)	0.31	E-4/°C	ISO 11359-2

Typical injection moulding processing conditions



Temperature:

	Mold
min (°C)	90
max (°C)	160

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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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