FORTRON® 1200L1 | PPS | Specialty

Description

Fortron 1200L1 is an unfilled grade for extrusion applications, which has a high melt viscosity and tensile elongation. The recommended processing conditions are identical to those of our standard unfilled grades.

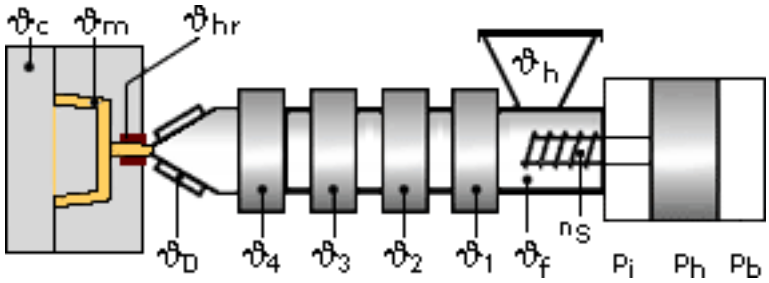
Physical properties	Value	Unit	Test Standard
Density	**1340**	kg/m³	ISO 1183
Water absorption (23°C-sat)	**0.2**	%	ISO 62

Mechanical properties	Value	Unit	Test Standard
Tensile modulus (1mm/min)	**4000**	MPa	ISO 527-2/1A
Tensile strain at yield (50mm/min)	**3**	%	ISO 527-2/1A
Tensile stress at break (50mm/min)	**88**	MPa	ISO 527-2/1A
Tensile strain at break (50mm/min)	**20**	%	ISO 527-2/1A
Flexural modulus (23°C)	**4100**	MPa	ISO 178
Flexural strength (23°C)	**143**	MPa	ISO 178
Rockwell hardness	**93**	M-Scale	ISO 2039-2

Thermal properties	Value	Unit	Test Standard
Melting temperature (10°C/min)	**275**	°C	ISO 11357-1,-2,-3
Glass transition temperature (10°C/min)	**90**	°C	ISO 11357-1,-2,-3
Coeff.of linear therm. expansion (parallel)	**0.4**	E-4/°C	ISO 11359-2
Coeff.of linear therm. expansion (normal)	**0.42**	E-4/°C	ISO 11359-2

Electrical properties	Value	Unit	Test Standard
Electric strength	**30**	kV/mm	IEC 60243-1

Typical injection moulding processing conditions



Pre Drying:

Necessary low maximum residual moisture content: 0.02%

Drying time: 3 - 4 hours h

Drying temperature: 110 - 120 °C

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General Disclaimer

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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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