Ticona

FORTRON 1140L0 | PPS | Glass Reinforced

Fortron 1140L0 is a 40% glass-reinforced extrusion grade. It exhibits excellent heat and chemical resistance, good electrical properties and is inherently flame-retardant. The high hardness and rigidity at elevated temperatures allows for good load bearing performance. This product has good weldability due to the modest filler level. 1140L0 is used to produce rods and slabs.

Physical properties	Value	Unit	Test Standard
Density	**1650**	kg/m³	ISO 1183
Water absorption (23°C-sat)	**0.02**	%	ISO 62

Mechanical properties	Value	Unit	Test Standard
Tensile stress at break (5mm/min)	**185**	MPa	ISO 527-2/1A
Tensile strain at break (5mm/min)	**1.9**	%	ISO 527-2/1A
Flexural modulus (23°C)	**14000**	MPa	ISO 178
Flexural stress @ break	**280**	MPa	ISO 178
Charpy notched impact strength @ 23°C	**10**	kJ/m²	ISO 179/1eA
Charpy notched impact strength @ -30°C	**10**	kJ/m²	ISO 179/1eA

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
Flammability @1.6mm nom. thickn.	**V-0**	class	UL94
thickness tested (1.6)	**1.5**	mm	UL94
Flammability at thickness h	**V-0**	class	UL94
thickness tested (h)	**0.38**	mm	UL94

Test specimen production	Value	Unit	Test Standard
Injection molding melt temperature	**310 - 340**	°C	ISO 294
Injection molding mold temperature	**135 - 160**	°C	ISO 294

Disclaimer