

PIBITER® NRV15S1 NAT001 - PBT
Description

PBT, 15% glass fiber reinforced

Physical properties	Value	Unit	Test Standard
Density	1340	kg/m ³	ISO 1183
Melt flow rate, MFR	15	g/10min	ISO 1133
MFR temperature	250	°C	ISO 1133
MFR load	2.16	kg	ISO 1133

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	5500	MPa	ISO 527-2/1A
Tensile stress at break, 5mm/min	93	MPa	ISO 527-2/1A
Tensile strain at break, 5mm/min	3.3	%	ISO 527-2/1A
Flexural modulus, 23°C	4700	MPa	ISO 178
Charpy impact strength, 23°C	60	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	6.8	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
Flammability @1.6mm nom. thickn.	HB	class	UL 94

Typical injection moulding processing conditions

Pre Drying	Value	Unit	Test Standard
Drying time	3 - 4	h	-
Drying temperature	100 - 120	°C	-
Temperature	Value	Unit	Test Standard
Zone1 temperature	230 - 250	°C	-
Zone2 temperature	240 - 260	°C	-
Zone3 temperature	245 - 265	°C	-
Zone4 temperature	250 - 270	°C	-
Mold temperature	60 - 90	°C	-

