

TECNOPRENE® AK8 NAT001 - PP

Description

Polypropylene, homopolymer, 40% glass fiber reinforced, chemically coupled.

Physical properties	Value	Unit	Test Standard
Density	1220	kg/m ³	ISO 1183
Melt flow rate, MFR	2.8	g/10min	ISO 1133
MFR temperature	230	°C	ISO 1133
MFR load	2.16	kg	ISO 1133

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	9200	MPa	ISO 527-2/1A
Tensile stress at break, 5mm/min	100	MPa	ISO 527-2/1A
Tensile strain at break, 5mm/min	2.7	%	ISO 527-2/1A
Flexural modulus, 23°C	8500	MPa	ISO 178
Flexural strength, 23°C	160	MPa	ISO 178
Charpy notched impact strength, 23°C	12	kJ/m ²	ISO 179/1eA
Izod impact notched, 23°C	12	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
DTUL at 1.8 MPa	150	°C	ISO 75-1, -2
Flammability at thickness h	HB	class	UL 94
thickness tested (h)	1.50	mm	UL 94
UL recognition (h)	UL	-	UL 94

Typical injection moulding processing conditions

Pre Drying	Value	Unit
Drying time	2 - 3	h
Drying temperature	80 - 100	°C

Temperature	Value	Unit
Zone1 temperature	200 - 220	°C
Zone2 temperature	220 - 240	°C
Zone3 temperature	240 - 260	°C
Nozzle temperature	240 - 260	°C
Mold temperature	50 - 80	°C

Other text information

Longer pre-drying times/storage

This product should be stored in a covered facility and kept away from moisture and heat.

Characteristics

Product Categories

Glass reinforced

Processing

Injection molding