



3227TN Tricotex black

700°C

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Description

Tricotex packing is a type of gasket made by braiding black “HT” glass filaments, which allow the white packing to withstand temperatures of up to 700°C. The unique type of braiding achieved with needle machines prevents fraying on cutting.

Applications

Ovens, pellet stoves, wood-burning stoves, fireplaces, direct vent fireplaces, wood stoves and boilers.

Standard sizes

diameter (mm)	rolls (m)
3	500
4	500
5	500
6	200
8	200
10	200
12	200
15	100
18	50
20	50

Chemical analysis

Aluminium oxide	Al ₂ O ₃	12 - 16 %
Silicon oxide	SiO ₂	52 - 56 %
Calcium oxide	CaO	16 - 25 %
Magnesium oxide	MgO	0 - 5 %
Boron oxide	B ₂ O ₃	5 - 10 %
Alkali content	Na ₂ O+K ₂ O	0 - 1 %
Iron oxide	Fe ₂ O ₃	0.05 - 0.4 %
Titanium oxide	Ti ₂ O ₃	0 - 0.8 %
Fluorine	F ₂	0 - 1 %

Characteristics of the glass yarn

Fibre diameter	6-9 µm
Colour	black

Mechanical characteristics of the glass yarn

Virgin filament tensile test	34000 MPa 493 ksi
Impregnated strand tensile test	2400 MPa 348 ksi
Tensile modulus	73 GPa 10.5 msi
Toughness	Min.50 cN/Tex
Elongation at break	2.2 - 2.5%
Elastic recovery	100%

Electrical characteristics of the glass yarn

Dielectric constant	
- at 1MHz	6.4
- at 1GHz	6.13
Loss angle	
- at 1MHz	0.0018 - 0.0039
- at 1GHz	0.0039
Volume resistivity	1014 - 1015 Ohm/cm
Surface resistivity	1013 - 1014 Ohm/cm
Dielectric strength	8 - 12 kV/mm

Thermal characteristics of the glass yarn

Operating temperature	
- black	700°C
Linear coefficient of thermal expansion	5.3 10 ⁻⁶ m/m/ °C
Specific heat	
- at 20°C	0.764 J/g. °K
- at 200°C	0.958 J/g. °K
Coefficient of thermal conductivity	1.0 W/m.°K

The products are classified as non-hazardous in accordance with the European 67/548/EEC standard and its amendments.