TEXPACK®

TECHNICAL DATA SHEET

Rev. 01-29/10/2019

3227TN

Tricotex black

700°C

STOVES&FIREPLACES STOVES&FIREPLACES ST

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_2O_3	12 - 16 %
Silicon oxide	SiO_2	52 - 56 %
Calcium oxide	CaO	16 - 25 %
Magnesium oxide	MgO	0 - 5 %
Boron oxide	B_2O_3	5 - 10 %
Alkali content	Na_2O+K_2O	0 - 1 %
Iron oxide	Fe_2O_3	0.05 - 0.4 %
Titanium oxide	T_1O_2	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 - at 1GHz	 6.4 6.13
Loss angle - at 1MHz - at 1GHz	 0.0018 - 0.0039 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 - at 200°C	 0.764 J/g. °K 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.

Company with a quality management system certified by DNV - UNI EN ISO 9001. The information in this data sheet is merely indicative and as such it is not possible to check the methods and conditions of use of the product; in this regard the company cannot accept any responsibility

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