

PRODUCT

# 20% CAF2 BROWN

(80% Virgin ptfе+ 20% Calcium fluoride+ Special iron oxide)

Property	Method	Units	Specification
Specific gravity	ASTM D792	g/cm <sup>3</sup>	2,270 – 2,370
Tensile strength	ASTM D4894	MPa	≥ 15
Elongation	ASTM D4894	%	≥ 150
Hardness	ASTM D2240	Shore D	≥ 60
Deformation under load (140 Kg/cm <sup>2</sup> for 24 hrs. At 23°C)	ASTM D621	%	9 - 10
Permanent deformation (after 24 hrs. Relaxation at 23°C)	ASTM D621	%	4,5 – 5,5
Coefficient of linear thermal expansion (T= 25 - 100 °C)		10 <sup>-5</sup> /°C	9 – 11
Coefficient of static friction			0,15 – 0,17
Coefficient of dynamic friction			0,12 – 0,14
Volume resistivity	ASTM D257	Ohm cm	10 <sup>15</sup>
Ageing and weatherability			Stable over 20 years of exposure
Service Temperature		C°	-200/ +260

**Properties:**

- Improved compression resistance, (poor machining), good dielectric characteristics, good chemical resistance.

**Main applications:**

- Electrical applications for switches and insulators where good thermal barriers are required. Calcium fluoride is used in static and dynamic seal applications and where resistance to fluorinated chemicals is required.

**Statement on suitability for contact with foodstuff:**

- We certify that all our calcium fluoride filled molded semifinished products, made of 20% CAF2 Brown, can come in contact with foodstuff, as per the following requirement:

USA regulations (FDA, Food and Drug Administration, Department of Health and Human Services; Code of Federal Regulations 21 CFR Ch. 1 § 177.1550 (a) (1) and (b)-Perfluorocarbon Resins.

The user must verify that the finished item, made of the semifinished product, would be technically suitable for the requested application. The user must also verify that the finished item may not cause any modification to the organoleptic properties of the foodstuff and that the item's technological fitness it is assigned to, may be guaranteed.

For each foreign country market, where the articles are introduced into, it is responsibility of the user to determine whether both material than articles would comply with the applicable laws and regulations.

Date: 11/2009