TFE/P 75-compound 223201 - Technical Data Sheet

1. Introduction

TFE/P 223201 is a TFE/P rubber. This material has excellent resistance to heat, hydrocarbon oils. Very good compression set. Original DuPont-Dow-Elastomer compound.

2. Product Description

Chemical Composition	:	Tetrafluorethylene + Propylene-Copolymer; Bisphenol cured
Physical form	:	O-Rings / Mouldings
Colour	:	Black
Storage stability *	:	Excellent

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	*Norm*	*Test Values*
Hardness	ISO 868	75° ± 5° IRHD
Tensile Strength at break	ISO 37	1750 psi
Elongation at break	ISO 37	298%
Specific Weight	ISO 2781	1,705
Compression Set	ISO 815	
22h/200°C, on slab		16,4%
Heat Ageing 70h/250°C	ASTM D 573	
Hardness Change		-1°
Tensile Strength Change		+43%
Elongation Change		-25%
Weight change		-1,39%
Immersion in ASTM fuel C, 70h/23°C	ISO 1817	
Hardness Change		-26°
Volume Change		+37,2%
Tensile Strength Change		-55%
Elongation Change		-47%
Immersion in ASTM 101 oil, 70h/200°C	ISO 1817	
Hardness Change		-14°
Volume Change		+15%
Tensile Strength Change		0%
Elongation Change		+2%
Immersion in ASTM 7700/SAE oil, 70h/200°C	ISO 1817	
Hardness Change		-12°
Volume Change		+13,6%
Tensile Strength Change		+1%
Elongation Change		0%
NaOH (50%) resistance, 70h/23°C	ISO 1817	
Hardness Change		-1°
Volume Change		+0,3%
Tensile Strength Change		-6%
Elongation Change		-4%

4. Temperature Resistance

- -10° to +200°C

5. Chemical Resistance

ASTM Oil n° 3	:	very good
ASTM Fuel C	:	unsatisfactory
Acetone	:	unsatisfactory
Crude oils	:	very good
Kerosin	:	very good
Sulphuric acids	:	very good
MEK	:	unsatisfactory
MTBE	:	fair
Water	:	very good
Steam, 200°C	:	very good

6. Advantages

- Excellent resistance to heat, hydrocarbon oils.
- Very good compression set.

7. Other Information

TFE/P components are combustible and decomposition products generate hydrogen fluoride and fluorinated olefins. Do not expose to temperatures in excess of 310°C.