

## TECHNICAL DATA SHEET

# VOLTALEF® 302

## FLUORINATED HOMOPOLYMER POWDER

VOLTALEF® 302 resin is a fluorinated polymer which presents an exceptional behavior at very low temperatures. It is usable in continuation from -200°C to +150°C with allowable peaks at 200°C. It is non-inflammability, has excellent chemical and radiation resistance, good barrier properties, is insensitivity to oxygen and water with good electrical properties. The processing is critical but can be done by extrusion, injection and compression molding

### DESIGNATION

PCTFE

### MAIN APPLICATIONS

- Internal Components
- Aerospace
- Hi Purity
- Molding

### TRANSFORMATION PROCESSES

- Film Extrusion
- Injection Molding
- Other Extrusion
- Transfer Molding

## MECHANICAL PROPERTIES

プロパティ	価値	テスト基準
Nominal strain at break, 23°C (73°F), 50 mm/min	50 %	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	80 kJ/m <sup>2</sup>	ISO 179 1eA
Yield stress, 23°C (73°F), 50 mm/min	43 MPa	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	7 %	ISO 527-1/-2

## THERMAL PROPERTIES

プロパティ	価値	テスト基準
Glass transition temperature, 10°C/min	55 °C	ISO 11357-1/-2
Heat deflection temperature, 1.8 MPa	70 °C	ISO 75-1/-2
Heat deflection temperature, 0.45 MPa	126 °C	ISO 75-1/-2
Oxygen index	100 %	ISO 4589-1/-2

## ELECTRICAL PROPERTIES

プロパティ	価値	テスト基準
Surface resistivity	1*10E15 ohm/sq	
Volumic (transversal) resistivity	2*10E12 ohm*m	
Dielectric strength, 23°C (73,4°F)	21 kV/mm	IEC 60243-1

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## OTHER PROPERTIES

プロパティ	価値	テスト基準
Water absorption, Saturated in water at 23°C (73°F)	0.01 %	ISO 62
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	0.01 %	ISO 62
Apparent density, Non compacted	2130 kg/m <sup>3</sup>	

## REGIONAL AVAILABILITY

Africa, Asia Pacific, Europe, Latin America and the Caribbean, Northern America

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