

Voltalef® 302

Polytetrafluoroethylene

Arkema

Message:

Voltalef® 302 is a Polytetrafluoroethylene (PTFE) product. It can be processed by extrusion, film extrusion, injection molding, or resin transfer molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

Flame Retardant

Good UV Resistance

Heat Resistant

General Information	
Features	Flame Retardant
	Good UV Resistance
	High Heat Resistance
Forms	Powder
Processing Method	Extrusion
	Film Extrusion
	Injection Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Density	2130	kg/m ³	ISO 1183 ¹
Water Absorption			ISO 62 ²
Saturation	0.010	%	
Equilibrium	0.010	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	1400	MPa	ISO 527-2 ³
Tensile Stress (Yield)	43.0	MPa	ISO 527-2 ⁴
Tensile Strain (Yield)	7.0	%	ISO 527-2 ⁵
Nominal strain at break	> 50	%	ISO 527-2 ⁶
Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	80.0	kJ/m ²	ISO 179/1eA ⁷
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2 ⁸
0.45 MPa	126	°C	
1.8 MPa	70.0	°C	
Glass Transition Temperature ⁹	55	°C	ISO 11357-2 ¹⁰
Melting Temperature ¹¹	214	°C	ISO 11357-3 ¹²
Electrical	Nominal Value	Unit	Test Method
Surface resistivity	> 1.0E+15	ohms	IEC 60093 ¹³

Volume resistivity	2.0E+12	ohms·m	IEC 60093 ¹⁴
Electric strength	21	kV/mm	IEC 60243-1 ¹⁵
Flammability	Nominal Value	Unit	Test Method
Oxygen index	100	%	ISO 4589-2 ¹⁶
NOTE			

1.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
2.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
3.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
4.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
5.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
6.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
7.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
8.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
9.	10 °C/min		
10.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
11.	10 °C/min		
12.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
13.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
14.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
15.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
16.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		

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