

Arnitel[®] CM551 (Provisional)

Property Data

TPC-ES

Heat Resistant Copolyester

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
Melt volume-flow rate	8	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
MECHANICAL PROPERTIES			
Shore D Hardness (3s)	52	-	ISO 868
Tensile modulus	140	MPa	ISO 527-1/-2
Stress at break	32	MPa	ISO 527-1/-2
Nominal strain at break	450	%	ISO 527-1/-2
Charpy notched impact strength (+23°C)	N	kJ/m ²	ISO 179/1eA
Izod notched impact strength (23°C)	N	kJ/m ²	ISO 180/1A
Tear strength Graves (without nick)	150	kN/m	ISO 34
THERMAL PROPERTIES			
Melting temperature (10°C/min)	205	°C	ISO 11357-1/-3
Vicat softening temperature (50°C/h 50N)	170	°C	ISO 306
Coeff. of linear therm. expansion (normal)	190	E-4/°C	ISO 11359-1/-2
ELECTRICAL PROPERTIES			
Relative permittivity (100Hz)	4.34	-	IEC 60250
Relative permittivity (1 MHz)	3.58	-	IEC 60250
Dissipation factor (100 Hz)	212	E-4	IEC 60250
Dissipation factor (1 MHz)	460	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Surface resistivity	>1E15	Ohm	IEC 60093
Electric strength	15	kV/mm	IEC 60243-1
Comparative tracking index	600	-	IEC 60112
OTHER PROPERTIES			
Density	1240	kg/m ³	ISO 1183

29.01.2009

All information supplied by or on behalf of DSM in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and, in good faith, believed reliable, but DSM assumes no liability and makes no warranties of any kind, express or implied, including, but not limited to, those of title, merchantability, fitness for a particular purpose or non-infringement or any warranty arising from a course of dealing, usage, or trade practice whatsoever in respect of application, processing or use made of the aforementioned information or product. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequence from the use of all such information. Typical values are indicative only and are not to be construed as being binding specifications.