

Arnitel® CM551

Copolyester
DSM Engineering Plastics

Message:

Arnitel® CM551 is a Copolyester material. It is available in Asia Pacific, Europe, or North America. Primary attribute of Arnitel® CM551: Heat Resistant.

General Information			
Features	Medium Heat Resistance		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	8.00	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	51		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	140	MPa	ISO 527-2
Tensile Stress (Break)	32.0	MPa	ISO 527-2
Nominal Tensile Strain at Break	450	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	No Break		ISO 179/1eA
Notched Izod Impact Strength			ISO 180/1A
-20°C	9.0	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	170	°C	ISO 306/B50
Melting Temperature ¹	205	°C	ISO 11357-3
CLTE - Transverse	1.9E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms · cm	IEC 60093
Electric Strength	15	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	4.34		
1 MHz	3.58		
Dissipation Factor			IEC 60250
100 Hz	0.021		
1 MHz	0.046		
Comparative Tracking Index	600	V	IEC 60112
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	4.0 to 6.0	hr	

Rear Temperature	200 to 220	°C
Middle Temperature	210 to 230	°C
Front Temperature	220 to 240	°C
Nozzle Temperature	230 to 250	°C
Processing (Melt) Temp	230 to 250	°C
Mold Temperature	20.0 to 50.0	°C
Injection Rate	Moderate-Fast	
Back Pressure	3.00 to 10.0	MPa
Screw Compression Ratio	2.5:1.0	
NOTE		

1. 10°C/min

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