

# TECACOMP® TPE TC white 3975V

Thermoplastic Elastomer

Ensinger GmbH

## Message:

Main features

high thermal conductivity

electrically insulating

Target Industries

electrical engineering

LED lighting technology

mechanical engineering

automotive industry

General Information			
Filler / Reinforcement	Ceramic fiber filler		
Features	Heat conduction Insulation		
Uses	LEDs Lighting Applications Application in Automobile Field		
Appearance	White		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.61	g/cm <sup>3</sup>	
Apparent Density	0.48	g/cm <sup>3</sup>	ISO 60
Melt Mass-Flow Rate (MFR) (280°C/10.0 kg)	25	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (280°C/10.0 kg)	15.5	cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	0.40	%	ISO 294-4
Flow	0.42	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1200	MPa	ISO 527-2/50
Tensile Stress	20.0	MPa	ISO 527-2/50
Tensile Strain (Break)	4.5	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	13	kJ/m <sup>2</sup>	ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	75.0	°C	ISO 75-2/A
Melting Temperature	160	°C	DIN 53765
Specific Heat	1610	J/kg/°C	DIN EN 821
Thermal Conductivity			DIN EN 821
-- <sup>1</sup>	2.0	W/m/K	DIN EN 821
-- <sup>2</sup>	8.0	W/m/K	DIN EN 821
Service Temperature			
long term	70	°C	
short term	100	°C	
Thermal Diffusivity			DIN EN 821
In-plane	4.00	cSt	DIN EN 821
Through-plane	0.800	cSt	DIN EN 821
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.9E+12	ohms	DIN EN 61340
Volume Resistivity	9.2E+12	ohms·cm	DIN EN 61340
Flammability	Nominal Value	Unit	Test Method
Flammability Classification	HB		IEC 60695-11-10, -20
Injection	Nominal Value	Unit	
Drying Temperature	70	°C	
Drying Time	2.0 - 3.0	hr	
Suggested Max Moisture	0.10	%	
Processing (Melt) Temp	190 - 230	°C	
Mold Temperature	90	°C	
NOTE			
1.	Through-plane		
2.	In-plane		

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