

TECACOMP® PA66 TC grey 4057

Polyamide 66
Ensinger GmbH

Message:

Main features
high thermal conductivity
flame retardant according to UL94 V-0
very good electrical insulation
Target Industries
electrical engineering
LED lighting technology
mechanical engineering
automotive industry

General Information			
Filler / Reinforcement	Mineral filler		
Additive	Flame retardancy		
Features	Heat conduction		
	Insulation		
	Halogen-free		
	Flame retardancy		
Uses	LEDs		
	Lighting Applications		
	Application in Automobile Field		
Appearance	Grey		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.91	g/cm³	
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	24	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	1.2	%	ISO 294-4
Flow	1.1	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.90	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9900	MPa	ISO 527-2/50
Tensile Stress	80.0	MPa	ISO 527-2/50
Tensile Strain (Break)	1.4	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	15	kJ/m²	ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	189	°C	ISO 75-2/A
Glass Transition Temperature	50.0	°C	DIN 53765
Melting Temperature	255	°C	DIN 53765
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 80°C	6.5E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	7.0E-5	cm/cm/°C	ISO 11359-2
Specific Heat	1090	J/kg/°C	DIN EN 821
Thermal Conductivity			DIN EN 821
-- ¹	1.1	W/m/K	DIN EN 821
-- ²	1.3	W/m/K	DIN EN 821
Service Temperature			
long term	110	°C	
short term	170	°C	
Thermal Diffusivity			DIN EN 821
In-plane	0.500	cSt	DIN EN 821
Through-plane	0.620	cSt	DIN EN 821
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+13	ohms	DIN EN 61340
Volume Resistivity	> 1.0E+15	ohms·cm	DIN EN 61340
Dielectric Strength	27	kV/mm	IEC 60243-1
Comparative Tracking Index	> 600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification (0.8 mm)	V-0		IEC 60695-11-10, -20
Injection	Nominal Value	Unit	
Drying Temperature	80	°C	
Drying Time	4.0 - 8.0	hr	
Suggested Max Moisture	0.10	%	
Processing (Melt) Temp	260 - 310	°C	
Mold Temperature	90 - 150	°C	
NOTE			
1.	Through-plane		
2.	In-plane		

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