TECACOMP® PA66 TRM black 9124

Polyamide 66

Ensinger GmbH

Message:

Main features
very good bearing and wear properties
Target Industries
automotive industry
mechanical engineering

General Information			
Filler / Reinforcement	PTFE fiber Carbon fiber reinforced material		
Features	Good wear resistance		
Uses	Application in Automobile Field		
Appearance	Black		
Forms	Particles		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.30	g/cm³	
Apparent Density	0.64	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	57	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (280°C/5.0 kg)	50.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	1.0	%	ISO 294-4
Flow	0.37	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	1.9	%	ISO 62
Viscosity Number (H2SO4 (Sulphuric Acid))	150	cm³/g	ISO 307
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	9000	MPa	ISO 527-2/50
Tensile Stress	150	MPa	ISO 527-2/50
Tensile Strain (Break)	3.0	%	ISO 527-2/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength	35	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	260	°C	ISO 75-2/B
1.8 MPa, not annealed	250	°C	ISO 75-2/A
Glass Transition Temperature			DIN 53765

-- [1]	5.00	°C	DIN 53765
-- [2]	72.0	°C	DIN 53765
Melting Temperature	260	°C	DIN 53765
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 45°C	2.4E-5	cm/cm/°C	ISO 11359-2
Flow: 70 to 120°C	2.2E-5	cm/cm/°C	ISO 11359-2
Horizontal: 23 to 45°C	1.1E-4	cm/cm/°C	ISO 11359-2
Horizontal: 70 to 120°C	1.4E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity			DIN EN 821
-- [3]	0.30	W/m/K	DIN EN 821
-- [4]	0.60	W/m/K	DIN EN 821
Service Temperature			
long term	110	°C	
short term	170	°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.3E+3	ohms·cm	ISO 3915
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flammability Classification	HB		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	280 - 300	°C	
Mold Temperature	80 - 120	°C	

NOTE	
1.	Moist
2.	Dry
3.	Through-plane
4.	In-plane

Recommended distributors for this material

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