

TECACOMP® PA66 TRM XS black 4074

Polyamide 66
Ensinger GmbH

Message:

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

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	Lubricant		
Features	Good wear resistance		
	Lubrication		
Uses	Application in Automobile Field		
Appearance	Black		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm³	
Apparent Density	0.64	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	75	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (280°C/5.0 kg)	65.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	1.0	%	ISO 294-4
Flow	0.36	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	1.8	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	18500	MPa	ISO 527-2/50
Tensile Stress	200	MPa	ISO 527-2/50
Tensile Strain (Break)	2.0	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	40	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	263	°C	ISO 75-2/B
1.8 MPa, not annealed	255	°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	1.2E-5	cm/cm/°C	ISO 11359-2
Flow: 70 to 120°C	9.0E-6	cm/cm/°C	ISO 11359-2
Horizontal: 23 to 45°C	7.8E-5	cm/cm/°C	ISO 11359-2
Horizontal: 70 to 120°C	1.2E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity			DIN EN 821
-- 3	0.70	W/m/K	DIN EN 821
-- 4	1.1	W/m/K	DIN EN 821
Service Temperature			
long term	110	°C	
short term	170	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.2E+4	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		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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