

TECACOMP® PA66 GF30 TF15 HI black 3366

Polyamide 66
Ensinger GmbH

Message:

Main features
excellent tensile strength
heat stabilized
Target Industries
automotive industry
business machines
mechanical engineering
precision engineering

General Information			
Filler / Reinforcement	PTFE fiber, 15% filler by weight		
	Glass fiber reinforced material, 30% filler by weight		
Additive	heat stabilizer		
Features	High tensile strength		
	Thermal Stability		
Uses	Application in Automobile Field		
	Business equipment		
Appearance	Black		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.48	g/cm³	
Apparent Density	0.69	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	50	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (280°C/5.0 kg)	38.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	0.98	%	ISO 294-4
Flow	0.31	%	ISO 294-4
Viscosity Number (H2SO4 (Sulphuric Acid))	143	cm³/g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10000	MPa	ISO 527-2/50
Tensile Stress	160	MPa	ISO 527-2/50
Tensile Strain (Break)	2.5	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	50	kJ/m²	ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	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
Service Temperature			
long term	110	°C	
short term	170	°C	
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.	Moist		
2.	Dry		

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Recommended distributors for this material

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

