

TECACOMP® PPA TRM XS black 4173

Polyphthalamide

Ensinger GmbH

Message:

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

General Information			
Features	Good wear resistance		
Uses	Application in Automobile Field		
Appearance	Black		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.32	g/cm³	
Apparent Density	0.53	g/cm³	ISO 60
Melt Volume-Flow Rate (MVR) (330°C/5.0 kg)	50.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	0.47	%	ISO 294-4
Flow	0.22	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16100	MPa	ISO 527-2/50
Tensile Stress	200	MPa	ISO 527-2/50
Tensile Strain (Break)	1.5	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	25	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	289	°C	ISO 75-2/A
Glass Transition Temperature	100 - 140	°C	DIN 53765
Melting Temperature	285 - 315	°C	DIN 53765
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 80°C	1.3E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	5.5E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity			DIN EN 821
-- 1	0.70	W/m/K	DIN EN 821

-- ²	1.1	W/m/K	DIN EN 821
Service Temperature			
long term	150	°C	
short term	250	°C	
Flammability	Nominal Value		Test Method
Flammability Classification	HB		IEC 60695-11-10, -20
Injection	Nominal Value	Unit	
Drying Temperature	80 - 120	°C	
Drying Time	4.0 - 6.0	hr	
Processing (Melt) Temp	315 - 340	°C	
Mold Temperature	100 - 120	°C	
NOTE			
1.	Through-plane		
2.	In-plane		

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