

# ALCOM® TCD PA66 5040 14016

Polyamide 66  
ALBIS PLASTIC GmbH

Message:

ALCOM® TCD PA66 5040 14016 is a Polyamide 66 (Nylon 66) product filled with filler. It is available in Asia Pacific, Europe, or North America. Applications of ALCOM® TCD PA66 5040 14016 include engineering/industrial parts, automotive, electrical/electronic applications, housings and lighting applications. Characteristics include:

- Flame Rated
- REACH Compliant
- RoHS Compliant
- Conductive
- Heat Stabilizer

General Information			
Filler / Reinforcement	Filler		
Additive	Heat Stabilizer		
Features	Electrically Insulating		
	Heat Stabilized		
	Thermally Conductive		
Uses	Automotive Applications		
	Connectors		
	Housings		
	Lighting Applications		
	Machine/Mechanical Parts		
	Plugs		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage (24 hr)	0.90	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7500	MPa	ISO 527-2
Tensile Stress (Break)	60.0	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	7800	MPa	ISO 178
Flexural Stress	110	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.0	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength	20	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	205	°C	ISO 75-2/A
Vicat Softening Temperature	245	°C	ISO 306/B50
Thermal Conductivity			
-- 1	1.2	W/m/K	ASTM E1461
-- 2	3.0	W/m/K	ASTM E1461
-- 3	2.0	W/m/K	ISO 22007-2
Electrical	Nominal Value	Unit	Test Method
Electric Strength	54	kV/mm	IEC 60243-1
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94
Glow Wire Flammability Index (2.00 mm)	850	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	80.0	°C	
Drying Time - Desiccant Dryer	2.0 to 12	hr	
Processing (Melt) Temp	300 to 320	°C	
Mold Temperature	100	°C	
NOTE			
1.	through-plane		
2.	in-plane		
3.	integral		

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