

ALCOM® PA6 900/31 FR TCD1

Polyamide 6
ALBIS PLASTIC GmbH

Message:

ALCOM® PA6 900/31 FR TCD1 is a Polyamide 6 (Nylon 6) product filled with filler. It is available in Asia Pacific, Europe, or North America. Applications of ALCOM® PA6 900/31 FR TCD1 include electrical/electronic applications, automotive, engineering/industrial parts, housings and lighting applications. Characteristics include:
Flame Rated
REACH Compliant
RoHS Compliant
Flame Retardant
Conductive

General Information				
Filler / Reinforcement		Filler		
Additive		Flame Retardant		
		Heat Stabilizer		
Features		Electrically Insulating		
		Flame Retardant		
		Halogen Free		
		Heat Stabilized		
		Thermally Conductive		
Uses		Automotive Applications		
		Connectors		
		Electrical/Electronic Applications		
		Housings		
		Lighting Applications		
		Machine/Mechanical Parts		
		Reflectors		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.62	--	g/cm ³	ISO 1183
Spiral Flow ¹	230	--	cm	
Molding Shrinkage (24 hr)	0.70	--	%	ISO 294-4
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9300	--	MPa	ISO 527-2
Tensile Stress	85.0	--	MPa	ISO 527-2
Tensile Strain (Break)	1.5	--	%	ISO 527-2

Flexural Modulus	9500	--	MPa	ISO 178
Flexural Stress	130	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	3.0	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	30	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	150	--	°C	ISO 75-2/A
Vicat Softening Temperature	210	--	°C	ISO 306/B50
Thermal Conductivity				
-- ²	1.0	--	W/m/K	ASTM E1461, ISO 22007-2
-- ³	1.3	--	W/m/K	ASTM E1461
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	0.0	ohms	IEC 60093
Electric Strength	27	--	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.750 mm	V-2	--		
1.50 mm	V-0	--		
3.00 mm	V-0	--		
Glow Wire Flammability Index (1.00 mm)	960	--	°C	IEC 60695-2-12
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 12		hr	
Processing (Melt) Temp	270 to 300		°C	
Mold Temperature	> 100		°C	
NOTE				
1.	2 mm			
2.	Through-plane			
3.	In-plane			

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