

Akulon® K222-KGV6

Polyamide 6
DSM Engineering Plastics

Message:

Akulon® K222-KGV6 is a Polyamide 6 (Nylon 6) material filled with 30% glass fiber. It is available in Asia Pacific or Europe.

Important attributes of Akulon® K222-KGV6 are:

- Flame Rated
- Flame Retardant
- Halogen Free
- Heat Stabilizer

General Information	
UL YellowCard	E47960-100627642
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Additive	Flame Retardant
	Heat Stabilizer
Features	Flame Retardant
	Halogen Free
	Heat Stabilized
	Low (to None) Phosphorus Content

Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.90	%	
Flow	0.55	%	
Water Absorption			ISO 62
Saturation, 23°C	5.6	%	
Equilibrium, 23°C, 50% RH	1.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6900	MPa	ISO 527-2
Tensile Stress (Break)	80.0	MPa	ISO 527-2
Tensile Strain (Break)	3.6	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	43	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	180	°C	ISO 75-2/A
Melting Temperature ¹	220	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method

Comparative Tracking Index	525	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.750 mm	V-2		
1.60 mm	V-2		
Glow Wire Flammability Index			IEC 60695-2-12
0.750 mm	960	°C	
1.60 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.750 mm	725	°C	
1.60 mm	725	°C	
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0 to 8.0	hr	
Rear Temperature	225 to 235	°C	
Middle Temperature	230 to 240	°C	
Front Temperature	235 to 250	°C	
Nozzle Temperature	235 to 255	°C	
Processing (Melt) Temp	245 to 265	°C	
Mold Temperature	50.0 to 80.0	°C	
Injection Rate	Moderate-Fast		
Back Pressure	3.00 to 10.0	MPa	
Screw Compression Ratio	2.5:1.0		
NOTE			
1.	10°C/min		

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Recommended distributors for this material

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