

Akulon® CO-KGV4 /A JN.00.86

Polyamide 6
DSM Engineering Plastics

Message:

Akulon® CO-KGV4 /A JN.00.86 is a Polyamide 6 (Nylon 6) material filled with 20% glass fiber. It is available in Europe.
Important attributes of Akulon® CO-KGV4 /A JN.00.86 are:

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

General Information	
Filler / Reinforcement	Glass Fiber,20% Filler by Weight
Additive	Flame Retardant
	Heat Stabilizer
Features	Flame Retardant
	Halogen Free
	Heat Stabilized
	Low (to None) Phosphorus Content

Physical	Dry	Conditioned	Unit	Test Method
Density	1.34	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	1.1	--	%	
Water Absorption				ISO 62
Saturation, 23°C	6.5	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4800	--	MPa	ISO 527-2
Tensile Stress (Break)	63.0	--	MPa	ISO 527-2
Tensile Strain (Break)	3.0	--	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0	--	kJ/m ²	ISO 179/1eA
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ¹	220	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms · cm	IEC 60093

Electric Strength	30	25	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	4.30	10.0		
1 MHz	3.80	3.90		
Dissipation Factor				IEC 60250
100 Hz	0.013	0.30		
1 MHz	0.021	0.10		
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.800 mm	V-2	--		
1.60 mm	V-2	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.800 mm	960	--	°C	
1.60 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.800 mm	725	--	°C	
1.60 mm	725	--	°C	
NOTE				
1.	10°C/min			

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