

Akulon® K225-KV

Polyamide 6
DSM Engineering Plastics

Message:

Akulon® K225-KV is a Polyamide 6 (Nylon 6) material. It is available in Asia Pacific, Europe, or North America.
Important attributes of Akulon® K225-KV are:
Flame Rated
Flame Retardant
Halogen Free
Heat Stabilizer

General Information		
UL YellowCard	E43392-100434268	E47960-100434266
Additive	Flame Retardant Heat Stabilizer	
Features	Flame Retardant Halogen Free Heat Stabilized	

Physical	Dry	Conditioned	Unit	Test Method
Density	1.21	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	1.0	--	%	
Water Absorption				ISO 62
Saturation, 23°C	7.5	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4200	1600	MPa	ISO 527-2
Tensile Stress (Yield)	70.0	35.0	MPa	ISO 527-2
Tensile Strain (Yield)	3.0	30	%	ISO 527-2
Nominal Tensile Strain at Break	4.0	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	5.0	kJ/m ²	
23°C	4.0	9.0	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	40	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method

Melting Temperature	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	3.30	8.00		
1 MHz	3.20	3.60		
Dissipation Factor				IEC 60250
100 Hz	9.0E-3	0.13		
1 MHz	0.020	0.080		
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.380 mm	V-2	--		
3.00 mm	V-2	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.380 mm	960	--	°C	
3.00 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.380 mm	930	--	°C	
3.00 mm	850	--	°C	
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0 to 8.0		hr	
Rear Temperature	225 to 230		°C	
Middle Temperature	230 to 235		°C	
Front Temperature	230 to 240		°C	
Nozzle Temperature	230 to 250		°C	
Processing (Melt) Temp	245 to 255		°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			

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