Akulon® K222-KGMV14

Polyamide 6

DSM Engineering Plastics

Message:

Akulon® K222-KGMV14 is a Polyamide 6 (Nylon 6) material filled with 5.0% glass fiber and 20% mineral. It is available in Europe.
Important attributes of Akulon® K222-KGMV14 are:
Flame Rated
Flame Retardant
Halogen Free
Heat Stabilizer
UV Stabilized

General Information	
UL YellowCard	E47960-240088
Filler / Reinforcement	Glass Fiber,5.0% Filler by Weight Mineral,20% Filler by Weight
Additive	Flame Retardant Heat Stabilizer UV Stabilizer
Features	Flame Retardant Halogen Free Heat Stabilized Low (to None) Phosphorus Content
Forms	Pellets

Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.60	--	%	
Water Absorption				ISO 62
Saturation, 23°C	6.8	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7000	3000	MPa	ISO 527-2
Tensile Stress (Break)	90.0	45.0	MPa	ISO 527-2
Tensile Strain (Break)	2.5	25	%	ISO 527-2

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA

-30°C	3.0	3.0	kJ/m²	
23°C	3.0	7.0	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	35	35	kJ/m²	
23°C	40	50	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, Unannealed	210	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	190	--	°C	ISO 75-2/A
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	4.20	10.0		
1 MHz	3.80	3.90		
Dissipation Factor				IEC 60250
100 Hz	9.0E-3	0.30		
1 MHz	0.019	0.10		
Comparative Tracking Index	475	475	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	V-2	--		
1.50 mm	V-2	--		
Glow Wire Flammability Index				IEC 60695-2-12
1.00 mm	960	--	°C	
1.60 mm	960	--	°C	
Injection	**Dry**	**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

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China