Akulon® S225-KS

Polyamide 66

DSM Engineering Plastics

Message:

Akulon®S225-KS is a polyamide 66 (nylon 66) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.
Akulon®The main features of the S225-KS are:
flame retardant/rated flame
Flame Retardant
heat stabilizer
Halogen-free

General Information	
UL YellowCard	E47960-240119
Additive	heat stabilizer Flame retardancy
Features	Thermal Stability Halogen-free Flame retardancy
Forms	Particle

Physical	Dry	Conditioned	Unit	Test Method
Density	1.16	--	g/cm³	ISO 1183
Water Absorption				ISO 62
Saturated, 23°C	7.5	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.2	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	4000	1700	MPa	ISO 527
Tensile Stress (Yield)	85.0	40.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.0	20	%	ISO 527-2
Nominal Tensile Strain at Break	12	50	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	3.5	7.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				ISO 75-2
0.45 MPa, not annealed	215	--	°C	ISO 75-2
1.8 MPa, not annealed	90.0	--	°C	ISO 75-2

Melting Temperature	260	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow	7.0E-5	--	cm/cm/°C	ISO 11359-2
Lateral	1.4E-4	--	cm/cm/°C	ISO 11359-2
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
Dielectric Strength	30	25	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	2.80	7.00		IEC 60250
1 MHz	3.30	3.80		IEC 60250
Dissipation Factor				IEC 60250
100 Hz	8.5E-3	0.14		IEC 60250
1 MHz	0.012	0.090		IEC 60250
Comparative Tracking Index	600	600	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flammability Classification				IEC 60695-11-10, -20
0.38 mm	V-0	--		IEC 60695-11-10, -20
0.75 mm	V-0	--		IEC 60695-11-10, -20
1.5 mm	V-0	--		IEC 60695-11-10, -20
Oxygen Index	36	--	%	ISO 4589-2
Injection	**Dry**	**Unit**		
Drying Temperature	80		°C	
Drying Time	4.0 - 8.0		hr	
Rear Temperature	250 - 260		°C	
Middle Temperature	260 - 270		°C	
Front Temperature	265 - 275		°C	
Nozzle Temperature	260 - 265		°C	
Processing (Melt) Temp	265 - 275		°C	
Mold Temperature	50 - 80		°C	
Injection Rate	Moderate-Fast			
Back Pressure	3.00 - 10.0		MPa	
Screw Compression Ratio	2.5:1.0			

Recommended distributors for this material

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