

Rilsan® AESN G9 T6L

Polyamide 12

Arkema

Message:

Rilsan® AESN G9 T6L is a Polyamide 12 (Nylon 12) product filled with filler. It can be processed by extrusion, injection molding, or profile extrusion and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Typical application: Automotive.

Characteristics include:

Good UV Resistance

Heat Resistant

Lubricated

General Information				
Filler / Reinforcement		Filler		
Additive		Lubricant		
Features		Good UV Resistance		
		High Heat Resistance		
		Lubricated		
Forms		Pellets		
Processing Method		Extrusion		
		Injection Molding		
		Profile Extrusion		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1070	1070	kg/m ³	ISO 1183 ¹
Melt volume-flow rate (235°C/2.16 kg)	2.00	--	cm ³ /10min	ISO 1133 ²
Water Absorption (Saturation)	1.4	--	%	ISO 62 ³
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	2360	2200	MPa	ISO 527-2 ⁴
Tensile Stress (Yield)	50.0	45.0	MPa	ISO 527-2 ⁵
Tensile Strain (Yield)	5.0	7.0	%	ISO 527-2 ⁶
Nominal strain at break	33	> 50	%	ISO 527-2 ⁷
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁸
-30°C	--	4.00	kJ/m ²	
23°C	--	5.00	kJ/m ²	

Charpy impact strength				ISO 179/1eU ⁹
-30°C	--	111	kJ/m ²	
23°C	--	133	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 ¹⁰
0.45 MPa	162	--	°C	
1.8 MPa	65.0	--	°C	
Melting Temperature ¹¹	178	--	°C	ISO 11357-3 ¹²
CLTE - Flow	8.0E-5	--	cm/cm/°C	ISO 11359-2 ¹³
Electrical	Dry	Conditioned	Unit	Test Method
Surface resistivity	--	1.0E+14	ohms	IEC 60093 ¹⁴
Volume resistivity	--	1.0E+12	ohms·m	IEC 60093 ¹⁵
Electric strength	34	34	kV/mm	IEC 60243-1 ¹⁶
Relative Permittivity				IEC 60250 ¹⁷
100 Hz	4.00	--		
1 MHz	4.00	--		
Dissipation Factor				IEC 60250 ¹⁸
100 Hz	0.043	--		
1 MHz	0.023	--		
Comparative tracking index	--	600		IEC 60112 ¹⁹
Flammability	Dry	Conditioned	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	V-2	--		ISO 1210 ²⁰
Burning Behav. at thickness h (3.20 mm)	V-2	--		ISO 1210 ²¹
Oxygen index	22	--	%	ISO 4589-2 ²²
NOTE				
1.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
2.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
3.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
4.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
5.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
6.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			

7.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
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9.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
10.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
11.	10 °C/min
12.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
13.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
14.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
15.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
16.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
17.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
18.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
19.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
20.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
21.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
22.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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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

