

Rilsan® AESN Y T6L

Polyamide 12

Arkema

Message:

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

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
	Film Extrusion
	Injection Molding
	Profile Extrusion

Physical	Dry	Conditioned	Unit	Test Method
Density	1040	1040	kg/m ³	ISO 1183 ¹
Melt volume-flow rate (235°C/2.16 kg)	1.50	--	cm ³ /10min	ISO 1133 ²
Water Absorption (Saturation)	1.6	--	%	ISO 62 ³
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	1800	1580	MPa	ISO 527-2 ⁴
Tensile Stress (Yield)	50.0	46.0	MPa	ISO 527-2 ⁵
Tensile Strain (Yield)	5.0	7.0	%	ISO 527-2 ⁶
Nominal strain at break	> 50	> 50	%	ISO 527-2 ⁷
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁸
-30°C	5.00	7.00	kJ/m ²	
23°C	5.00	7.00	kJ/m ²	
Charpy impact strength				ISO 179/1eU ⁹
-30°C	No Break	No Break		
23°C	No Break	No Break		

Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 ¹⁰
0.45 MPa	140	--	°C	
1.8 MPa	55.0	--	°C	
Vicat Softening Temperature (50°C/h, B (50N))	143	--	°C	ISO 306 ¹¹
Melting Temperature ¹²	178	--	°C	ISO 11357-3 ¹³
CLTE - Flow	9.0E-5	--	cm/cm/°C	ISO 11359-2 ¹⁴
Electrical	Dry	Conditioned	Unit	Test Method
Surface resistivity	--	1.0E+14	ohms	IEC 60093 ¹⁵
Volume resistivity	--	1.0E+12	ohms·m	IEC 60093 ¹⁶
Flammability	Dry	Conditioned	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	V-2	--		ISO 1210 ¹⁷
Burning Behav. at thickness h (3.20 mm)	V-2	--		ISO 1210 ¹⁸
Oxygen index	22	--	%	ISO 4589-2 ¹⁹
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.			
8.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.			
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.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
12.	10 °C/min
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.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

