

Rilsan® AMN D

Polyamide 12

Arkema

Message:

Rilsan® AMN D is a Polyamide 12 (Nylon 12) product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: mold release agent.

General Information				
Additive	Mold Release			
Forms	Pellets			
Processing Method	Injection Molding			
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	1010	1010	kg/m ³	ISO 1183 ¹
Melt volume-flow rate (235°C/2.16 kg)	69.0	--	cm ³ /10min	ISO 1133 ²
Water Absorption				ISO 62 ³
Saturation	1.8	--	%	
Equilibrium	0.70	--	%	

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	1450	1170	MPa	ISO 527-2 ⁴
Tensile Stress (Yield)	42.0	39.0	MPa	ISO 527-2 ⁵
Tensile Strain (Yield)	8.0	10	%	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	--	6.00	kJ/m ²	
23°C	--	6.00	kJ/m ²	
Charpy impact strength				ISO 179/1eU ⁹
-30°C	--	No Break		
23°C	--	No Break		

Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 ¹⁰
0.45 MPa	135	--	°C	
1.8 MPa	55.0	--	°C	

Vicat Softening Temperature (50°C/h, B (50N))	142	--	°C	ISO 306 ¹¹
Melting Temperature ¹²	178	--	°C	ISO 11357-3 ¹³
CLTE				ISO 11359-2 ¹⁴
Flow	1.3E-4	--	cm/cm/°C	
Transverse	1.2E-4	--	cm/cm/°C	
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
Electric strength	--	30	kV/mm	IEC 60243-1 ¹⁷
Relative Permittivity				IEC 60250 ¹⁸
100 Hz	4.00	--		
1 MHz	3.00	--		
Dissipation Factor				IEC 60250 ¹⁹
100 Hz	0.078	--		
1 MHz	0.029	--		
Comparative tracking index	--	600		IEC 60112 ²⁰
Flammability	Dry	Conditioned	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	HB	--		ISO 1210 ²¹
Burning Behav. at thickness h (3.20 mm)	V-2	--		ISO 1210 ²²
Oxygen index	22	--	%	ISO 4589-2 ²³
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.
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.
23.	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

