

Rilsan® MA 4430

Polyamide 12

Arkema

Message:

Rilsan® MA 4430 is a Polyamide 12 (Nylon 12) product. 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.

Characteristics include:

Good UV Resistance

Heat Stabilizer

Impact Resistant

Lubricated

Plasticized

General Information	
Additive	Heat Stabilizer Lubricant Plasticizer
Features	Good Impact Resistance Good UV Resistance Heat Stabilized Lubricated
Forms	Pellets
Processing Method	Extrusion Injection Molding Profile Extrusion

Physical	Dry	Conditioned	Unit	Test Method
Density	1010	1010	kg/m ³	ISO 1183 ¹
Water Absorption				ISO 62 ²
Saturation	1.2	--	%	
Equilibrium	0.60	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	530	490	MPa	ISO 527-2 ³
Tensile Stress (Yield)	31.0	29.0	MPa	ISO 527-2 ⁴
Tensile Strain (Yield)	22	23	%	ISO 527-2 ⁵
Nominal strain at break	> 50	> 50	%	ISO 527-2 ⁶
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁷
-30°C	6.00	10.0	kJ/m ²	
23°C	75.0	100	kJ/m ²	

Charpy impact strength				ISO 179/1eU ⁸
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ⁹	175	--	°C	ISO 11357-3 ¹⁰
Electrical	Dry	Conditioned	Unit	Test Method
Surface resistivity	--	7.0E+14	ohms	IEC 60093 ¹¹
Volume resistivity	1.0E+11	1.0E+11	ohms·m	IEC 60093 ¹²
Flammability	Dry	Conditioned	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	HB	--		ISO 1210 ¹³
Burning Behav. at thickness h (3.20 mm)	HB	--		ISO 1210 ¹⁴
Oxygen index	20	--	%	ISO 4589-2 ¹⁵
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.	10 °C/min			
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.	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.

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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



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