

Rilsan® ASR 30

Polyamide 12

Arkema

Message:

Rilsan® ASR 30 is a Polyamide 12 (Nylon 12) product filled with filler. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

Antistatic

Good UV Resistance

Heat Resistant

Mold Release Agent

General Information				
Filler / Reinforcement		Filler		
Additive		Antistatic		
		Mold Release		
Features		Antistatic		
		Good UV Resistance		
		High Heat Resistance		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1150	1150	kg/m ³	ISO 1183 ¹
Melt volume-flow rate (235°C/2.16 kg)	3.00	--	cm ³ /10min	ISO 1133 ²
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	15000	14000	MPa	ISO 527-2 ³
Tensile Stress (Break)	161	154	MPa	ISO 527-2 ⁴
Tensile Strain (Break)	3.0	3.0	%	ISO 527-2 ⁵
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁶
-30°C	9.00	9.00	kJ/m ²	
23°C	15.0	16.0	kJ/m ²	
Charpy impact strength				ISO 179/1eU ⁷
-30°C	59.0	59.0	kJ/m ²	
23°C	61.0	59.0	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 ⁸
0.45 MPa	175	--	°C	

1.8 MPa	162	--	°C	
Vicat Softening Temperature (50°C/h, B (50N))	170	--	°C	ISO 306 ⁹
Melting Temperature ¹⁰	178	--	°C	ISO 11357-3 ¹¹
CLTE - Flow	4.0E-5	--	cm/cm/°C	ISO 11359-2 ¹²
Electrical	Dry	Conditioned	Unit	Test Method
Volume resistivity	--	4.0	ohms·m	IEC 60093 ¹³
Comparative tracking index	--	100		IEC 60112 ¹⁴
Flammability	Dry	Conditioned	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	HB	--		ISO 1210 ¹⁵
Burning Behav. at thickness h (3.20 mm)	HB	--		ISO 1210 ¹⁶
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.			
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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.	10 °C/min			
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.
16.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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