Rilsan® ASR 20

Polyamide 12

Arkema

Message:

Rilsan® ASR 20 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
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) Shear Modulus vs. Temperature (ISO 11403-1) Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Dry	Conditioned	Unit	Test Method
Density	1100	1100	kg/m³	ISO 1183 [1]
Melt volume-flow rate (235°C/2.16 kg)	5.00	--	cm³/10min	ISO 1133 [2]
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile modulus	12600	11400	MPa	ISO 527-2 [3]
Tensile Stress (Break)	132	128	MPa	ISO 527-2 [4]
Tensile Strain (Break)	5.0	4.0	%	ISO 527-2 [5]
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy notched impact strength				ISO 179/1eA [6]
-30°C	10.0	10.0	kJ/m²	
23°C	17.0	17.0	kJ/m²	
Charpy impact strength				ISO 179/1eU [7]
-30°C	59.0	58.0	kJ/m²	

23°C	59.0	64.0	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				ISO 75-2 [8]
0.45 MPa	175	--	°C	
1.8 MPa	160	--	°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	--	6.0	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.
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.
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6.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
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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.

Recommended distributors for this material

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