

Rilsan® AESN P20 TL

Polyamide 12

Arkema

Message:

Rilsan® AESN P20 TL 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. Typical application: Automotive.

Characteristics include:

Good UV Resistance

Heat Stabilizer

Lubricated

Plasticized

General Information				
Additive	Heat Stabilizer			
	Lubricant			
	Plasticizer			
Features	Good UV Resistance			
	Heat Stabilized			
	Lubricated			
Forms	Pellets			
Processing Method	Extrusion			
	Injection Molding			
	Profile Extrusion			
Multi-Point Data	Shear Modulus vs. Temperature (ISO 11403-1)			
	Viscosity vs. Shear Rate (ISO 11403-2)			
Physical	Dry	Conditioned	Unit	Test Method
Density	1020	1020	kg/m ³	ISO 1183 ¹
Melt volume-flow rate (235°C/2.16 kg)	2.50	--	cm ³ /10min	ISO 1133 ²
Water Absorption (Saturation)	1.4	--	%	ISO 62 ³
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	625	525	MPa	ISO 527-2 ⁴
Tensile Stress (Yield)	31.0	30.0	MPa	ISO 527-2 ⁵
Tensile Strain (Yield)	21	20	%	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	5.00	kJ/m ²	
23°C	50.0 kJ/m ²	No Break		
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	130	--	°C	
1.8 MPa	48.0	--	°C	
Vicat Softening Temperature (50°C/h, B (50N))	134	--	°C	ISO 306 ¹¹
Melting Temperature ¹²	175	--	°C	ISO 11357-3 ¹³
CLTE - Flow	1.2E-4	--	cm/cm/°C	ISO 11359-2 ¹⁴
Electrical	Dry	Conditioned	Unit	Test Method
Surface resistivity	--	1.0E+12	ohms	IEC 60093 ¹⁵
Volume resistivity	--	1.0E+10	ohms·m	IEC 60093 ¹⁶
Electric strength	--	26	kV/mm	IEC 60243-1 ¹⁷
Comparative tracking index	--	600		IEC 60112 ¹⁸
Flammability	Dry	Conditioned	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	HB	--		ISO 1210 ¹⁹
Burning Behav. at thickness h (3.20 mm)	HB	--		ISO 1210 ²⁰
Oxygen index	20	--	%	ISO 4589-2 ²¹
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.

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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.

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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.	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.

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