

Orgalloy® RS 6015 ES T6L

Polyamide 6

Arkema

Message:

Orgalloy® RS 6015 ES T6L is a Polyamide 6 (Nylon 6) product filled with filler. It can be processed by blow molding, extrusion, or profile extrusion and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: heat resistant.

General Information	
Filler / Reinforcement	Filler
Features	High Heat Resistance
	Platable
Forms	Pellets
Processing Method	Blow Molding
	Extrusion
	Profile Extrusion

Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)
	Secant Modulus vs. Strain (ISO 11403-1)

Physical	Dry	Conditioned	Unit	Test Method
Density	1200	1200	kg/m ³	ISO 1183 ¹
Melt volume-flow rate (235°C/5.0 kg)	0.500	--	cm ³ /10min	ISO 1133 ²
Water Absorption				ISO 62 ³
Saturation	2.8	--	%	
Equilibrium	1.1	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	--	2850	MPa	ISO 527-2 ⁴
Tensile Stress (Break)	--	75.0	MPa	ISO 527-2 ⁵
Tensile Strain (Break)	--	6.5	%	ISO 527-2 ⁶
Impact	Dry	Conditioned	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA ⁷
-30°C	--	5.00	kJ/m ²	
23°C	--	13.5	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 ⁸
0.45 MPa	210	--	°C	
1.8 MPa	175	--	°C	

Melting Temperature ⁹	220	--	°C	ISO 11357-3 ¹⁰
Electrical	Dry	Conditioned	Unit	Test Method
Surface resistivity	--	> 1.0E+15	ohms	IEC 60093 ¹¹
Volume resistivity	--	> 1.0E+13	ohms·m	IEC 60093 ¹²
Electric strength	35	35	kV/mm	IEC 60243-1 ¹³
Relative Permittivity				IEC 60250 ¹⁴
100 Hz	--	3.00		
1 MHz	--	3.00		
Dissipation Factor				IEC 60250 ¹⁵
100 Hz	--	0.063		
1 MHz	--	0.024		
Comparative tracking index	--	600		IEC 60112 ¹⁶
Flammability	Dry	Conditioned	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	HB	--		ISO 1210 ¹⁷
Burning Behav. at thickness h (3.20 mm)	HB	--		ISO 1210 ¹⁸
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.
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.

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

