

Orgalloy® RS 6635A

Polyamide 66 Alloy

Arkema

Message:

Orgalloy® RS 6635A is a Polyamide 66 Alloy (Nylon 66 Alloy) product filled with filler. It can be processed by extrusion, injection molding, profile extrusion, or resin transfer molding 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	Extrusion			
	Injection Molding			
	Profile Extrusion			
	Resin Transfer Molding			
Multi-Point Data		Shear Modulus vs. Temperature (ISO 11403-1)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1310	1310	kg/m ³	ISO 1183 ¹
Melt volume-flow rate (275°C/2.16 kg)	6.00	--	cm ³ /10min	ISO 1133 ²
Water Absorption				ISO 62 ³
Saturation	1.7	--	%	
Equilibrium	0.70	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile modulus	--	9600	MPa	ISO 527-2 ⁴
Tensile Stress (Break)	--	160	MPa	ISO 527-2 ⁵
Tensile Strain (Break)	--	3.5	%	ISO 527-2 ⁶
Tensile Creep Modulus				ISO 899-1 ⁷
1 hr	--	9300	MPa	
1000 hr	--	6240	MPa	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2 ⁸
0.45 MPa	245	--	°C	
1.8 MPa	225	--	°C	
Vicat Softening Temperature (50°C/h, B (50N))	200	--	°C	ISO 306 ⁹

Melting Temperature ¹⁰	255	--	°C	ISO 11357-3 ¹¹
CLTE				ISO 11359-2 ¹²
Flow	1.7E-5	--	cm/cm/°C	
Transverse	1.0E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface resistivity	--	> 1.0E+15	ohms	IEC 60093 ¹³
Volume resistivity	--	> 1.0E+13	ohms·m	IEC 60093 ¹⁴
Electric strength	34	34	kV/mm	IEC 60243-1 ¹⁵
Relative Permittivity				IEC 60250 ¹⁶
100 Hz	--	3.00		
1 MHz	--	4.00		
Dissipation Factor				IEC 60250 ¹⁷
100 Hz	--	0.030		
1 MHz	--	0.015		
Comparative tracking index	--	600		IEC 60112 ¹⁸
Flammability	Dry	Conditioned	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm, UL)	HB	--		ISO 1210 ¹⁹
Burning Behav. at thickness h (3.20 mm, UL)	HB	--		ISO 1210 ²⁰
NOTE				

1. Tested in accordance with
ISO 10350. 23°C/50%r.h.
unless otherwise noted.

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9. Tested in accordance with
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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.
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.

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