Orgalloy® RS 6620

Polyamide 66 Alloy

Arkema

Message:

Orgalloy® RS 6620 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	
UL YellowCard	E45228-100039180
Filler / Reinforcement	Filler
Features	High Heat Resistance Platable
Forms	Pellets
Processing Method	Extrusion Injection Molding Profile Extrusion Resin Transfer Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1180	1180	kg/m³	ISO 1183 [1]
Melt volume-flow rate (275°C/2.16 kg)	10.0	--	cm³/10min	ISO 1133 [2]
Water Absorption				ISO 62 [3]
Saturation	2.3	--	%	
Equilibrium	1.1	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile modulus	--	5500	MPa	ISO 527-2 [4]
Tensile Stress (Break)	--	110	MPa	ISO 527-2 [5]
Tensile Strain (Break)	--	4.5	%	ISO 527-2 [6]
Tensile Creep Modulus				ISO 899-1 [7]
1 hr	--	4900	MPa	
1000 hr	--	3510	MPa	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				ISO 75-2 [8]
0.45 MPa	240	--	°C	
1.8 MPa	220	--	°C	
Vicat Softening Temperature (50°C/h, B (50N))	160	--	°C	ISO 306 [9]

Melting Temperature [10]	255	--	°C	ISO 11357-3 [11]
Electrical	Dry	Conditioned	Unit	Test Method
Surface resistivity	--	> 1.0E+15	ohms	IEC 60093 [12]
Volume resistivity	--	> 1.0E+13	ohms·m	IEC 60093 [13]
Electric strength	35	35	kV/mm	IEC 60243-1 [14]
Relative Permittivity				IEC 60250 [15]
100 Hz	--	3.00		
1 MHz	--	4.00		
Dissipation Factor				IEC 60250 [16]
100 Hz	--	0.028		
1 MHz	--	0.017		
Comparative tracking index	--	600		IEC 60112 [17]
Flammability	Dry	Conditioned	Unit	Test Method
Burning Behav. at 1.6mm nom. thickn. (1.60 mm)	HB	--		ISO 1210 [18]
Burning Behav. at thickness h (3.20 mm)	HB	--		ISO 1210 [19]
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.	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.
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.

Recommended distributors for this material

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