+135-3858-6433 (GuangDong) +188-1699-6168 (ShangHai) +852-6957-5415 (HongKong)



Powder ESY ORANGE 7705 - Rilsan® POLYAMIDE 11 (PA11) Powder

RILSAN® fine powders are specialty polyamide powders obtained from renewable resources. RILSAN® ESY range is designed for coating metal parts using the electrostatic spraying process. They provide superior protection against wear, impact, corrosion, chemicals as well as graffiti. Please consult Arkema literature for application method and recommendations. RILSAN® ESY ORANGE 7705 provides good electrical insulation, even at low thickness. It can be used in electrical applications such as busbar coatings.

PROPERTIES	VALUE	UNIT	TEST	
THERMAL PROPERTIES			STANDARD	
Vicat Softening Temperature, 50°C/h 50N	181	°C	ISO 306	
	358	°F		
ELECTRICAL PROPERTIES				
Dielectric Constant, 1 kHz	3.7	-	ASTM D150	
Dissipation Factor, 100 kHz	≤0.01	-	ASTM D150	
Surface Resistivity, 73 °F	2.4E14	Ohm per square	per square ASTM D257	
Dielectric (Electric) Strength	56	kV/mm	IEC 60243-1	
	1420	kV/in		
Comparative Tracking Index	600	-	IEC 60112	
POWDER PROPERTIES				
Color	Orange	-	-	
Particle Size Distribution, ≤ 20µm	20	%	ISO 13320	
Particle Size Distribution, ≥ 100µm	1	%	ISO 13320	
Particle Size Distribution, Median Size	30	μm	ISO 13320	
	0.00118	in		
Melting Temperature	183 - 188	°C	ISO 1218	
	361 - 370	°F		
Vicat Point	181	°C	ISO 306	
	358	°F		
Non Tapped Density	0.44	-	ISO 1068	
Tapped Density	0.62	-	ISO 1068	
POWDER COATING PROPERTIES				
Recommended Coating Thickness	125 - 175	μm	-	
	0.00492 - 0.00689	in		
Covering Efficiency , 100µm	0.12	kg/m²	-	
Specific Gravity of Coating, 20°C	1.25	-	ISO 1183	
Persoz Hardness	270	-	ISO 1522	



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RILSAN[®] FINE POWDERS ESY ORANGE 7705

Pencil Hardness	В	-	ECCA T4
Shore D Hardness	71	-	ISO 868
Water Absorption, 24h	≤1	%	ISO 62-1
Abrasion Resistance, Wheel CS 17, load 1 kg, 1000 cycles	25	mg	ISO 9352
Dielectric Strength	50	kV/mm	IEC 60243-1
	1270	V/mil	
Dissipation Factor, 25 °C, 1MHz	0.01	-	ASTM D150
Dielectric Constant	3.7	-	ASTM D150
Surface Resistivity	2.4E14	W	ASTM D257
Fire Resistance on coated panel	V-0	-	UL 94
Salt spray test according to surface preparation recommended by ARKEMA	Good adhesion after 2000 hours	-	ISO 9227

MAIN APPLICATIONS

· Metal Coating

General Purpose

• Electrical applications - Busbars

PACKAGING

This grade is delivered in 20kg bag.

SHELF LIFE

Two years from the date of delivery. For any use after this limit, please refer to our technical services.

PROCESSING
Coating, Electrostatic Spray
DELIVERY FORM
Powder
REGIONAL AVAILABILITY
North America, Europe, Asia Pacific, South and Central America, Near East/Africa

