

# PETG7807NC901-TDS

## PETG for 3D printing

It is a reinforced PETG pellet material with flame-retardant properties, fulfilling flame retardancy according to UL94 V-0 (@2.0mm). It is specifically designed for large-format pellet 3D printing equipment and features low odor, excellent water and chemical resistance, anti-yellowing, high strength, high fluidity, and easy printability. Parts printed with this material are durable, with a matte, sandblasted surface texture. It is suitable for 3D printing fire-resistant and long-lasting outdoor architectural components, large sculptures, and all-weather outdoor equipment parts.

### Part 1 Physical Properties

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values
Density	23°C	ISO 1183	g/cm3	1.5
Melt Volume Rate	220°C,10kg	ISO 1133	g/10min	25

*Note: The typical physical properties are not intended for use as sales specifications.*

### Part 2 Mechanical Properties

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values
Tensile Strength	5mm/min	ISO 527-1	MPa	90
Elongation @ Break	5mm/min	ISO 527-1	%	3
Flexural Strength	2mm/min	ISO 178	MPa	135
Flexural Modulus	2mm/min	ISO 178	MPa	6500
Impact Strength, Notched	1J	ISO 179-1	kJ/m2	5

*Note: The typical physical properties are not intended for use as sales specifications.*

### Part 3 Flame Retardancy

Testing Items	Testing Conditions	Testing Methods	Units	Typical Values
Flame Class Rating	2.0mm	UL94	-	V0

*Note: The typical physical properties are not intended for use as sales specifications.*

## Part 4 Recommended Processing Conditions

Parameters	Settings
Drying recommendations	60-80°C in a hot air dryer for 2-4hours
Extrusion Temperature	200-230°C

### Disclaimer:

The values provided in this data sheet are for reference and comparison purposes only. They should not be used for design specifications or quality control. Actual values may vary depending on printing conditions. The ultimate performance of printed parts depends not only on the material but also on the part design, environmental conditions, and printing conditions. The product specifications are subject to change without notice.

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