

RÖCHLING datasheet

SUSTAPPO (Noryl®)

SUSTA | 2009

SUSTA**PPO** (modified polyphenylene oxide) is manufactured from Noryl[®] resin. This material has very low moisture absorption and exceptional dimensional stability making it suitable for electrical insulating applications. SUSTA**PPO** is a lightweight engineering plastic that withstands most acids and bases and has excellent flame resistance. The standard color is black. SUSTA**PPO** is also available in glass-filled grades which have enhanced strength and stiffness.

Product Features:

- Continuous use temperature of 220°F
- Long term dimensional stability
- Low moisture absorption
- Good impact resistance

Thermal stability
Excellent impact strength

High dielectric strength

➡ Hydrolytic stability

Typical Properties of Stock Shapes

Property	Units	Test Method	Value Natural
Specific Gravity	-	ASTM D 792	1.08
Water Absorption 24 hrs	%	ASTM D 570	0.07
Water Absorption Saturation	%	ASTM D 570	0.2
Flammability	-	UL 94	V-1
Tensile Strength	psi	ASTM D 638	9,400
Elongation	%	ASTM D 638	30
Modulus	psi	ASTM D 638	350,000
Flexural Strength	psi	ASTM D 790	13,400
Modulus	psi	ASTM D 790	360,000
Notched Izod	ft-lb/in	ASTM D 256	3.5
Rockwell Hardness	-	ASTM D 785	R119
HDT @ 264 psi	°F	ASTM D 648	260
Coefficient Linear thermal expansion	in/in/°F	ASTM D 696	3.30 x 10⁻⁵
Dielectric Strength	V / mil	ASTM D 149	500
Volume Resistivity	ohm-cm	ASTM D 257	10 ¹⁷
Dielectric Constant	-	ASTM D 150	2.7

Typical Applications

- Electrical components
- Pump and valve parts
- Housings
- Manifolds
- Analytical instrumentation
- Medical devices

Certifications

ASTM D4349



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Property data is based on typical values of resin as presented in an injection molded plaque. All information contained herein is presented in good faith based upon testing and practical experience. These values are not intended for use in establishing specification values. Röchling Engineering Plastics does not guarantee the accuracy and completeness of this information and it is the customer's sole responsibility to determine the suitability of the products in any given application

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