

RÖCHLING datasheet

SUSTA | 2009

SUSTAPPO (Noryl®)

SUSTAPPO (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. SUSTAPPO is a lightweight engineering plastic that withstands most acids and bases and has excellent flame resistance. The standard color is black. SUSTAPPO 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
- ⇒ High dielectric strength
- ⇒ Thermal stability
- ⇒ Excellent impact strength
- ⇒ Hydrolytic stability

Typical Properties of Stock Shapes

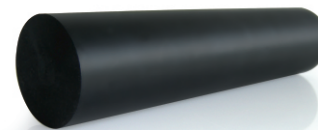
Property	Units	Test Method	Value Natural
Specific Gravity	-	ASTM D 792	1.08
Water Absorption 24 hrs	%	ASTM D 570	0.07
Water Absorption Saturation	%	ASTM D 570	0.2
Flammability	-	UL 94	V-1
Tensile Strength	psi	ASTM D 638	9,400
Elongation	%	ASTM D 638	30
Modulus	psi	ASTM D 638	350,000
Flexural Strength	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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