



SustaPPO (Noryl)

Modified polyphenylene oxide (Rochling Engineering)

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

