

PPE + PS Noryl 265

This material is a modified PPO that is a strong engineering plastic with excellent mechanical, thermal, and electrical properties. As a result of its low moisture absorption and low thermal expansion, PPE + PS Noryl 265 is one of the most dimensionally stable thermoplastics. It is commonly used for electrical housings due to its high flame resistance and outstanding insulating properties.

Applications

Typical applications include manifolds, pumps, valves, scientific instrument components, housings, covers, electrical/electronic components, food processing, and automotive components.

Key Product Benefits

- Excellent Dimensional Stability
- Flame Resistance
- Impact Resistance
- Moisture Resistance
- Electrically Insulating
- Easy to Fabricate, Paint and Glue

Properties

Property	Test Method	Value
Density	ASTM D792	1.08 g/cm ³
Water Absorption @ 24 hours	ASTM D570	0.07-0.10%
Tensile Strength @ Yield	ASTM D638	9,000-9,400 psi
Tensile Modulus	ASTM D638	350,000-367,000 psi
Elongation @ Break	ASTM D638	23-30%
Flexural Strength	ASTM D790	12,900-13,400 psi
Flexural Modulus	ASTM D790	360,000-397,000 psi
Rockwell Hardness (R Scale)	ASTM D785	119
Izod Impact, Notched	ASTM D256	3.5 ft-lb/in
Dynamic Coefficient of Friction		0.39
Coefficient of Linear Thermal Expansion	ASTM D696/ASTM E831	3.3-3.6 × 10 ⁻⁵ in/in/°F

Property (Continued)	Test Method (Continued)	Value (Continued)
Continuous Service Temperature, Air		200-220°F
Flammability (1/8 inch)	UL 94	V-1
Heat Deflection Temperature @ 264 psi	ASTM D648	254-260°F
Heat Deflection Temperature @ 66 psi	ASTM D648	279-289°F
Dielectric Constant @ 1 MHz	ASTM D150	2.7