

NORYL™ Resin PPO534 - Asia
(PPE+PS)

Saudi Basic Industries Corporation (SABIC)

Product Texts

NORYL PPO534 resin is a non-reinforced blend of polyphenylene ether (PPE) + polystyrene (PS). This high heat injection moldable grade exhibits high impact strength, dimensional stability, hydrolytic stability, and very low moisture absorption. This material is an excellent candidate for compounding applications.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|--------------|-------|---------------|
| ASTM Data | | | |
| Mold Shrinkage, MD | 0.007 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|-------------------------------------|--------------|------|-----------------|
| ASTM Data | | | |
| Flexural Modulus | 2590 | MPa | ASTM D 790 |
| Flexural Strength | 104 | MPa | ASTM D 790 |
| Rockwell Hardness | R 123 | - | ASTM D 785 |
| Izod Impact notched, 1/8 in | 137 | J/m | ASTM D 256 |
| Other Standards^{S1} | | | |
| Tensile Strength at Yield | 72 | MPa | Producer Method |
| Elongation at Break | 55 | % | Producer Method |

S: These properties are reported by the producer according standards that are different to our defaults.

| Thermal properties | Value | Unit | Test Standard |
|---------------------------------------|------------|-------|-----------------|
| ISO Data | | | |
| Burning behav. at 1.5 mm nom. thickn. | V-1 | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | - |
| Yellow Card available | yes | - | - |
| ASTM Data | | | |
| UL 94 Flame rating | V-1 | - | UL 94 |
| Thickness tested | 1.5 | mm | - |
| DTUL @ 264 psi | 160 | °C | ASTM D 648 |

| Electrical properties | Value | Unit | Test Standard |
|----------------------------|-------------|------|---------------|
| ASTM Data | | | |
| Dielectric Constant, 60 Hz | 2.58 | - | ASTM D 150 |
| Surface Resistivity | 1E16 | Ohm | ASTM D 257 |

| Other properties | Value | Unit | Test Standard |
|------------------------|-------------|-------------------|---------------|
| Water Absorption, 24hr | 0.03 | % | ASTM D 570 |
| Density | 1080 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|------------------|------|---------------|
| Pre-drying - Temperature | 100 - 120 | °C | - |
| Pre-drying - Time | 3 - 4 | h | - |
| Melt temperature | 290 - 320 | °C | - |
| Mold temperature | 80 - 120 | °C | - |
| Zone 1 | 260 - 280 | °C | - |
| Zone 2 | 270 - 300 | °C | - |
| Zone 3 | 290 - 320 | °C | - |
| Nozzle temperature | 280 - 310 | °C | - |
| Screw speed | 40 - 60 | rpm | - |
| Back pressure | 0.5 - 1.2 | MPa | - |

Characteristics

Processing
Injection Molding

Chemical Resistance
Hydrolytically Stable

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Special Characteristics

High impact or impact modified

Features

Low Warpage

Applications

Electrical and Electronical

Regional Availability

Asia Pacific