



Material Data Sheet

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| Product: Polyphenylene ether | Base Material: Film |
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Description

Polyphenylene ether (PPE/PS) displays good qualities of chemical resistance and low water absorption.

Typical Properties

| <u>Physical Properties</u> | <u>Test Method</u> | <u>Unit</u> | <u>Value</u> |
|-----------------------------------|----------------------------------------|--------------------|--------------|
| Specific Gravity | ASTM D-792 | g/cc | 1.10 |
| Water Absorption at Saturation | ASTM D-570 | % | 0.06 |
| <u>Mechanical Properties</u> | | | |
| Tensile Strength at Break | ISO 527 | psi | 9570 |
| Tensile Strength, Yield | Type I, 50mm/min; ASTM D-638 | psi | 10700 |
| Elongation at Break | Type I, 50mm/min; ASTM D-638 | % | 7.60 |
| Flexural Modulus | 2.6 mm/min, 100 mm span; ASTM D-790 | ksi | 363 |
| <u>Electrical Properties</u> | | | |
| Volume Resistivity | ASTM D-257 | ohm-cm | 1.00e+17 |
| Surface Resistance | ASTM D-257 | ohm | 1.00e+17 |
| Dielectric Constant | ASTM D-150 | - | 2.68 |
| <u>Thermal Properties</u> | | | |
| UL RTI, Electrical | UL 746B | °F | 221 |
| UL RTI, Mechanical with impact | UL 746B | °F | 221 |
| UL RTI, Mechanical without impact | UL 746B | °F | 221 |
| Flammability | UL 94 | @ thickness 0.0579 | V-0 |

The information presented in this publication is believed to be accurate and is not intended to constitute a specification. The values given reflect average material characteristics and may vary slightly between base suppliers. Users should evaluate the material to determine the suitability for their own particular application.

Base on terms and conditions

Seller's only obligation shall be to replace such quantity of the product proven to be defective. Seller shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use, or inability to use the product for his/her use, and the user assumes all risk and liability whatsoever in connection therewith. The foregoing may not be changed, except by an agreement signed by an officer or seller. We hereby certify that goods covered by this quotation have been produced in compliance with the Fair Labor Standards Act of 1983, as amended. Any credit memos to purchaser shall expire if not used within one year from date of credit memo.

