

# Veradel® A-704P

## polyethersulfone

Veradel® A-704P (PESU) is a powder designed for dissolving or dispersing into solutions. It can also be ground to smaller particle size, or blended with other solid particles.

PESU offers excellent toughness and outstanding hydrolytic resistance. It resists attack from steam, boiling water and mineral acids. Cast films or coatings of PESU are transparent and have additional desirable properties including long term thermal stability, excellent metal adhesion and formability and inherent flame resistance.

Typical applications include high-temperature coating formulations, advanced high-temperature composites and specialty adhesives.

Veradel® A-704P is relatively low in molecular weight and viscosity. A higher molecular weight and viscosity grade is available as A-304P.

This grade was formerly marketed as Radel® A PESU

- Natural: Veradel® A-704P NT

### General

|                   |  |   |
|-------------------|--|---|
| Material Status   | • Commercial: Active   |   |
| Availability      | <ul style="list-style-type: none"> <li>• Africa &amp; Middle East</li> <li>• Asia Pacific</li> <li>• Europe</li> </ul>   | <ul style="list-style-type: none"> <li>• Latin America</li> <li>• North America</li> </ul>  |
| Features          | <ul style="list-style-type: none"> <li>• Acid Resistant</li> <li>• Chemical Resistant</li> <li>• Creep Resistant</li> <li>• Flame Retardant</li> <li>• Food Contact Acceptable</li> <li>• Good Adhesion</li> <li>• Good Dimensional Stability</li> <li>• Good Thermal Stability</li> </ul> | <ul style="list-style-type: none"> <li>• Good Toughness</li> <li>• High Flow</li> <li>• High Heat Resistance</li> <li>• High Tensile Strength</li> <li>• Hydrolysis Resistant</li> <li>• Low Molecular Weight</li> <li>• Medium Rigidity</li> </ul> |
| Uses              | • Adhesives  | • Coating Applications  |
| RoHS Compliance   | • RoHS Compliant   |   |
| Appearance        | • Transparent - Slight Yellow  |   |
| Forms             | • Powder   |   |
| Processing Method | <ul style="list-style-type: none"> <li>• Coating</li> <li>• Solution Processing</li> </ul>   | • Spraying  |

| Physical                                 | Typical Value | Unit  | Test method     |
|--|---------------|-------|-----------------|
| Density / Specific Gravity               | 1.37          |       | ASTM D792       |
| Water Absorption (24 hr)                 | 0.60          | %     | ASTM D570       |
| Residual Solvent                         | 0.50          | %     | Internal Method |
| Viscosity - Solution <sup>1</sup> (40°C) | 200           | mPa·s | Internal Method |

  

| Thermal                      | Typical Value | Unit     | Test method |
|------------------------------|---------------|----------|-------------|
| Glass Transition Temperature | 220           | °C       | ASTM E1356  |
| CLTE - Flow                  | 4.9E-5        | cm/cm/°C | ASTM D696   |

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## Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> 25% in Dimethylacetamide