

# DuPont™ Delrin®

acetal resin

PRELIMINARY DATA

## Delrin® 527UVE RD419-D

Delrin® 527UVE RD419-D is a medium viscosity acetal homopolymer with UV stabilizers developed for automotive interior applications. It has low emissions.

| Property                       | Test Method    | Units                                  | Value       |
|--------------------------------|----------------|----------------------------------------|-------------|
| <b>Identification</b>          |                |                                        |             |
| Resin Identification           | ISO 1043       |                                        | POM         |
| Part Marking Code              | ISO 11469      |                                        | >POM<       |
| <b>Mechanical</b>              |                |                                        |             |
| Yield Stress                   | ISO 527        | MPa (kpsi)                             | 72 (10)     |
| Yield Strain                   | ISO 527        | %                                      | 15          |
| Nominal Strain at Break        | ISO 527        | %                                      | 28          |
| Tensile Modulus                | ISO 527        | MPa (kpsi)                             | 3400 (495)  |
| Flexural Modulus               | ISO 178        | MPa (kpsi)                             | 3100 (450)  |
| Notched Charpy Impact Strength | ISO 179/1eA    | kJ/m <sup>2</sup>                      |             |
| -30°C (-22°F)                  |                |                                        | 8           |
| 23°C (73°F)                    |                |                                        | 9           |
| <b>Thermal</b>                 |                |                                        |             |
| Deflection Temperature         | ISO 75-1/-2    | °C (°F)                                |             |
| 1.80MPa                        |                |                                        | 110 (230)   |
| Melting Temperature            | ISO 11357-1/-3 | °C (°F)                                |             |
| 10°C/min                       |                |                                        | 178 (352)   |
| <b>Rheological</b>             |                |                                        |             |
| Melt Mass-Flow Rate            | ISO 1133       | g/10 min                               |             |
| 190°C, 2.16kg                  |                |                                        | 14          |
| <b>Other</b>                   |                |                                        |             |
| Density                        | ISO 1183       | kg/m <sup>3</sup> (g/cm <sup>3</sup> ) | 1420 (1.42) |

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.

ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.

Test temperatures are 23°C unless otherwise stated.

**The above data are preliminary and are subject to change as additional data are developed on subsequent lots.**

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## Product Information

### Delrin® 527UVE RD419-D

| Property                        | Test Method | Units      | Value             |
|---------------------------------|-------------|------------|-------------------|
| <b>Processing</b>               |             |            |                   |
| Melt Temperature Range          |             | °C (°F)    | 200-210 (390-410) |
| Melt Temperature Optimum        |             | °C (°F)    | 205 (400)         |
| Mold Temperature Range          |             | °C (°F)    | 80-100 (175-210)  |
| Mold Temperature Optimum        |             | °C (°F)    | 90 (195)          |
| Drying Time, Dehumidified Dryer |             | h          | 2-4               |
| Drying Temperature              |             | °C (°F)    | 80 (175)          |
| Processing Moisture Content     |             | %          | <0.2              |
| Hold Pressure Range             |             | MPa (kpsi) | 80-100 (12-15)    |

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