# Veradel® 3300 ULT

Polyethersulfone

Solvay Specialty Polymers

## Message:

Veradel® PESU was formerly marketed as Gafone™ PESU
Veradel® polyethersulfone (PESU) is transparent and offers high heat deflection temperatures, excellent toughness and dimensional stability as well as resistance to steam, hot water and mineral acids. Other desirable properties include thermal stability, creep resistance, and inherent flame resistance.
Veradel® 3200 is a low melt flow grade that can be processed by extrusion or injection molding. It is FDA compliant and approved for direct food contact.
Veradel® 3300 is a medium melt flow, general purpose grade for injection molding.
Veradel® 3400 is a high melt flow grade designed for molding of parts with thin walls or long flow lengths.

| General Information | | | |
|---|---|---|---|
| Features | Acid Resistant | | |
| | Flame Retardant | | |
| | General Purpose | | |
| | Good Adhesion | | |
| | Good Chemical Resistance | | |
| | Good Creep Resistance | | |
| | Good Dimensional Stability | | |
| | Good Thermal Stability | | |
| | Good Toughness | | |
| | High Heat Resistance | | |
| | High Tensile Strength | | |
| | Hydrolysis Resistant | | |
| | Medium Flow | | |
| | Medium Molecular Weight | | |
| | Medium Rigidity | | |
| Uses | Food Service Applications | | |
| | General Purpose | | |
| RoHS Compliance | RoHS Compliant | | |
| Appearance | Transparent - Slight Yellow | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Specific Gravity | 1.37 | $g/cm^3$ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (380°C/2.16 kg) | 30 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 0.60 | % | ASTM D955 |
| Water Absorption (24 hr) | 0.50 | % | ASTM D570 |

| | | | |
|---|---|---|---|
| Water Absorption - 30 days | 1.9 | % | ASTM D570 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 2690 | MPa | ASTM D638 |
| Tensile Strength | 88.9 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 6.5 | % | ASTM D638 |
| Flexural Modulus | 2620 | MPa | ASTM D790 |
| Flexural Strength | 125 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact | 53 | J/m | ASTM D256 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load (1.8 MPa, Annealed) | 200 | °C | ASTM D648 |
| CLTE - Flow | 5.2E-5 | cm/cm/°C | ASTM D696 |
| **Electrical** | **Nominal Value** | **Unit** | **Test Method** |
| Volume Resistivity | 1.7E+15 | ohms·cm | ASTM D257 |
| Dielectric Strength | 15 | kV/mm | ASTM D149 |
| Dielectric Constant | | | ASTM D150 |
| 60 Hz | 3.51 | | |
| 1 kHz | 3.50 | | |
| 1 MHz | 3.54 | | |
| Dissipation Factor | | | ASTM D150 |
| 60 Hz | 1.7E-3 | | |
| 1 kHz | 2.2E-3 | | |
| 1 MHz | 5.6E-3 | | |
| **Flammability** | **Nominal Value** | **Unit** | **Test Method** |
| Flame Rating [1] (1.50 mm) | V-0 | | UL 94 |
| **Injection** | **Nominal Value** | **Unit** | |
| Drying Temperature | 177 | °C | |
| Drying Time | 2.5 | hr | |
| Processing (Melt) Temp | 343 to 385 | °C | |
| Mold Temperature | 149 to 163 | °C | |
| Injection Rate | Fast | | |
| Screw Compression Ratio | 2.0:1.0 | | |
| **NOTE** | | | |
| 1. | These flammability ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. | | |



## Recommended distributors for this material

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