

## XENOY™ RESIN X2500UV

REGION EUROPE

### DESCRIPTION

XENOY X2500UV is a medium viscosity, unfilled, UV stabilized, elastomer modified PC/PET blend with excellent heat and impact performance. ISO1043-label: PC+PET-I.

### TYPICAL PROPERTY VALUES

Revision 20260509

| PROPERTIES                                   | TYPICAL VALUES | UNITS     | TEST METHODS |
|----------------------------------------------|----------------|-----------|--------------|
| <b>MECHANICAL</b>                            |                |           |              |
| Tensile Stress, yield                        | 53             | MPa       | ASTM D638    |
| Tensile Stress, yld, Type I, 50 mm/min       | 56             | MPa       | ASTM D638    |
| Tensile Stress, brk, Type I, 50 mm/min       | 55             | MPa       | ASTM D638    |
| Tensile Strain, yield                        | 5              | %         | ASTM D638    |
| Tensile Strain, break                        | 100            | %         | ASTM D638    |
| Tensile Strain, yld, Type I, 50 mm/min       | 5              | %         | ASTM D638    |
| Tensile Strain, brk, Type I, 50 mm/min       | 80             | %         | ASTM D638    |
| Tensile Modulus, 50 mm/min                   | 2200           | MPa       | ASTM D638    |
| Flexural Stress                              | 79             | MPa       | ASTM D790    |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span | 79             | MPa       | ASTM D790    |
| Flexural Modulus                             | 2100           | MPa       | ASTM D790    |
| Flexural Modulus, 1.3 mm/min, 50 mm span     | 2150           | MPa       | ASTM D790    |
| Taber Abrasion, CS-17, 1 kg                  | 20             | mg/1000cy | SABIC method |
| Tensile Stress, yield, 50 mm/min             | 57             | MPa       | ISO 527      |
| Tensile Stress, break, 50 mm/min             | 56             | MPa       | ISO 527      |
| Tensile Strain, yield, 50 mm/min             | 5              | %         | ISO 527      |
| Tensile Strain, break, 50 mm/min             | 70             | %         | ISO 527      |
| Tensile Modulus, 1 mm/min                    | 2200           | MPa       | ISO 527      |
| Flexural Stress, yield, 2 mm/min             | 80             | MPa       | ISO 178      |
| Flexural Modulus, 2 mm/min                   | 2150           | MPa       | ISO 178      |
| Ball Indentation Hardness, H358/30           | 95             | MPa       | ISO 2039-1   |
| <b>IMPACT</b>                                |                |           |              |
| Izod Impact, notched, 23°C                   | 600            | J/m       | ASTM D256    |
| Izod Impact, notched, 0°C                    | 450            | J/m       | ASTM D256    |
| Izod Impact, notched, -30°C                  | 200            | J/m       | ASTM D256    |
| Instrumented Dart Impact Total Energy, 23°C  | 60             | J         | ASTM D3763   |
| Izod Impact, unnotched 80°10'4 -30°C         | NB             | kJ/m²     | ISO 180/1U   |
| Izod Impact, notched 80°10'4 +23°C           | 40             | kJ/m²     | ISO 180/1A   |
| Izod Impact, notched 80°10'4 -30°C           | 25             | kJ/m²     | ISO 180/1A   |
| Izod Impact, notched 80°10'4 -40°C           | 15             | kJ/m²     | ISO 180/1A   |
| Charpy 23°C, V-notch Edgew 80°10'4 sp=62mm   | 50             | kJ/m²     | ISO 179/1eA  |
| Charpy -30°C, V-notch Edgew 80°10'4 sp=62mm  | 30             | kJ/m²     | ISO 179/1eA  |
| Charpy -30°C, Unnotch Edgew 80°10'4 sp=62mm  | NB             | kJ/m²     | ISO 179/1eU  |
| <b>THERMAL</b>                               |                |           |              |

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CHEMISTRY THAT MATTERS™



| PROPERTIES                                    | TYPICAL VALUES | UNITS      | TEST METHODS      |
|-----------------------------------------------|----------------|------------|-------------------|
| Vicat Softening Temp, Rate B/50               | 135            | °C         | ASTM D1525        |
| HDT, 1.82 MPa, 3.2mm, unannealed              | 108            | °C         | ASTM D648         |
| CTE, -40°C to 40°C, flow                      | 8.E-05         | 1/°C       | ASTM E831         |
| CTE, -40°C to 40°C, xflow                     | 8.5E-05        | 1/°C       | ASTM E831         |
| Thermal Conductivity                          | 0.18           | W/m.°C     | ISO 8302          |
| CTE, 23°C to 80°C, flow                       | 8.2E-05        | 1/°C       | ISO 11359-2       |
| CTE, 23°C to 80°C, xflow                      | 8.7E-05        | 1/°C       | ISO 11359-2       |
| Ball Pressure Test, 125°C +/- 2°C             | PASSES         | -          | IEC 60695-10-2    |
| Vicat Softening Temp, Rate A/50               | 145            | °C         | ISO 306           |
| Vicat Softening Temp, Rate B/50               | 135            | °C         | ISO 306           |
| Vicat Softening Temp, Rate B/120              | 136            | °C         | ISO 306           |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm         | 108            | °C         | ISO 75/Af         |
| PHYSICAL                                      |                |            |                   |
| Specific Gravity                              | 1.21           | -          | ASTM D792         |
| Mold Shrinkage on Tensile Bar, flow           | 0.5 – 0.8      | %          | SABIC method      |
| Mold Shrinkage, flow, 3.2 mm                  | 0.5 – 0.8      | %          | SABIC method      |
| Mold Shrinkage on Tensile Bar, xflow          | 0.5 – 0.8      | %          | SABIC method      |
| Melt Flow Rate, 265°C/2.16kgf                 | 9              | g/10 min   | ASTM D1238        |
| Density                                       | 1.21           | g/cm³      | ISO 1183          |
| Water Absorption, (23°C/saturated)            | 0.7            | %          | ISO 62-1          |
| Moisture Absorption (23°C / 50% RH)           | 0.2            | %          | ISO 62            |
| Melt Volume Rate, MVR at 265°C/1.2 kg         | 4              | cm³/10 min | ISO 1133          |
| ELECTRICAL                                    |                |            |                   |
| Volume Resistivity                            | >1.E+14        | Ω.cm       | IEC 60093         |
| Surface Resistivity, ROA                      | >1.E+15        | Ω          | IEC 60093         |
| Dielectric Strength, in oil, 3.2 mm           | 17             | kV/mm      | IEC 60243-1       |
| Relative Permittivity, 1 MHz                  | 3.1            | -          | IEC 60250         |
| Dissipation Factor, 50/60 Hz                  | 0.002          | -          | IEC 60250         |
| Dissipation Factor, 1 MHz                     | 0.02           | -          | IEC 60250         |
| Relative Permittivity, 50/60 Hz               | 3.3            | -          | IEC 60250         |
| FLAME CHARACTERISTICS                         |                |            |                   |
| UL Compliant, 94HB Flame Class Rating         | 1.5            | mm         | UL 94 by SABIC-IP |
| Glow Wire Flammability Index 750°C, passes at | 2.7            | mm         | IEC 60695-2-12    |
| INJECTION MOLDING                             |                |            |                   |
| Drying Temperature                            | 110 – 120      | °C         |                   |
| Drying Time                                   | 4 – 6          | Hrs        |                   |
| Maximum Moisture Content                      | 0.02           | %          |                   |
| Melt Temperature                              | 265 – 275      | °C         |                   |
| Nozzle Temperature                            | 260 – 275      | °C         |                   |
| Front - Zone 3 Temperature                    | 260 – 280      | °C         |                   |
| Middle - Zone 2 Temperature                   | 250 – 275      | °C         |                   |
| Rear - Zone 1 Temperature                     | 240 – 270      | °C         |                   |
| Hopper Temperature                            | 60 – 80        | °C         |                   |
| Mold Temperature                              | 60 – 100       | °C         |                   |



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