



**XYLEX™ Resin X7507**  
**Americas: COMMERCIAL**

F-1 weathering certified in natural color, specially designed for Pool & Spa applications.

| TYPICAL PROPERTIES <sup>1</sup>              | TYPICAL VALUE | Unit                | Standard    |
|--|---------------|---------------------|-------------|
| <b>MECHANICAL</b>                            |               |                     |             |
| Tensile Stress, yld, Type I, 50 mm/min       | 620           | kgf/cm <sup>2</sup> | ASTM D 638  |
| Tensile Stress, brk, Type I, 50 mm/min       | 660           | kgf/cm <sup>2</sup> | ASTM D 638  |
| Tensile Strain, yld, Type I, 50 mm/min       | 6             | %                   | ASTM D 638  |
| Tensile Strain, brk, Type I, 50 mm/min       | 130           | %                   | ASTM D 638  |
| Tensile Modulus, 5 mm/min                    | 23400         | kgf/cm <sup>2</sup> | ASTM D 638  |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span | 970           | kgf/cm <sup>2</sup> | ASTM D 790  |
| Flexural Modulus, 1.3 mm/min, 50 mm span     | 23600         | kgf/cm <sup>2</sup> | ASTM D 790  |
| Tensile Stress, yield, 50 mm/min             | 62            | MPa                 | ISO 527     |
| Tensile Stress, break, 50 mm/min             | 59            | MPa                 | ISO 527     |
| Tensile Strain, yield, 50 mm/min             | 5.4           | %                   | ISO 527     |
| Tensile Strain, break, 50 mm/min             | 110           | %                   | ISO 527     |
| Tensile Modulus, 1 mm/min                    | 2660          | MPa                 | ISO 527     |
| Flexural Stress, yield, 2 mm/min             | 92            | MPa                 | ISO 178     |
| Flexural Modulus, 2 mm/min                   | 2180          | MPa                 | ISO 178     |
| <b>IMPACT</b>                                |               |                     |             |
| Izod Impact, notched, 23°C                   | 100           | cm-kgf/cm           | ASTM D 256  |
| Izod Impact, notched, -30°C                  | 20            | cm-kgf/cm           | ASTM D 256  |
| Instrumented Impact Total Energy, 23°C       | 805           | cm-kgf              | ASTM D 3763 |
| Izod Impact, notched 80*10*4 +23°C           | 9             | kJ/m <sup>2</sup>   | ISO 180/1A  |
| Izod Impact, notched 80*10*4 -30°C           | 6             | kJ/m <sup>2</sup>   | ISO 180/1A  |
| Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm   | 20            | kJ/m <sup>2</sup>   | ISO 179/1eA |
| <b>THERMAL</b>                               |               |                     |             |
| Vicat Softening Temp, Rate B/50              | 125           | °C                  | ASTM D 1525 |

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(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:

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|--|---------------|-------------------------|--------------|
| <b>THERMAL</b>                         |               |                         |              |
| HDT, 1.82 MPa, 3.2mm, unannealed       | 104           | °C                      | ASTM D 648   |
| CTE, -40°C to 40°C, flow               | 6.E-05        | 1/°C                    | ASTM E 831   |
| CTE, -40°C to 40°C, xflow              | 7.E-05        | 1/°C                    | ASTM E 831   |
| CTE, -40°C to 40°C, flow               | 6.E-05        | 1/°C                    | ISO 11359-2  |
| CTE, -40°C to 40°C, xflow              | 6.3E-05       | 1/°C                    | ISO 11359-2  |
| Vicat Softening Temp, Rate B/50        | 125           | °C                      | ISO 306      |
| Vicat Softening Temp, Rate B/120       | 127           | °C                      | ISO 306      |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm  | 105           | °C                      | ISO 75/Af    |
| <b>PHYSICAL</b>                        |               |                         |              |
| Specific Gravity                       | 1.2           | -                       | ASTM D 792   |
| Mold Shrinkage, flow, 3.2 mm (5)       | 0.5 - 0.8     | %                       | SABIC Method |
| Melt Flow Rate, 265°C/2.16kgf          | 8             | g/10 min                | ASTM D 1238  |
| Density                                | 1.2           | g/cm <sup>3</sup>       | ISO 1183     |
| Water Absorption, (23°C/sat)           | 0.32          | %                       | ISO 62       |
| Moisture Absorption (23°C / 50% RH)    | 0.12          | %                       | ISO 62       |
| Melt Volume Rate, MVR at 265°C/2.16 kg | 5             | cm <sup>3</sup> /10 min | ISO 1133     |
| <b>OPTICAL</b>                         |               |                         |              |
| Light Transmission, 2.54 mm            | >85           | %                       | ASTM D 1003  |
| Haze, 2.54 mm                          | 1.6           | %                       | ASTM D 1003  |

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| PROCESSING PARAMETERS       | TYPICAL VALUE | Unit |
|-----------------------------|---------------|------|
| <b>Injection Molding</b>    |               |      |
| Drying Temperature          | 80 - 95       | °C   |
| Drying Time                 | 3 - 5         | hrs  |
| Drying Time (Cumulative)    | 8             | hrs  |
| Maximum Moisture Content    | 0.02          | %    |
| Melt Temperature            | 250 - 270     | °C   |
| Nozzle Temperature          | 250 - 270     | °C   |
| Front - Zone 3 Temperature  | 250 - 270     | °C   |
| Middle - Zone 2 Temperature | 245 - 265     | °C   |
| Rear - Zone 1 Temperature   | 240 - 250     | °C   |
| Mold Temperature            | 45 - 60       | °C   |
| Back Pressure               | 0.2 - 0.5     | MPa  |
| Screw Speed                 | 20 - 100      | rpm  |
| Shot to Cylinder Size       | 40 - 80       | %    |
| Vent Depth                  | 0.013 - 0.02  | mm   |

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