

Physical Properties – AcrySpa™ Plus I-300+

Aristech Surfaces AcrySpa™ Plus is a composite engineered material which has the exceptional surface properties, weathering characteristics and aesthetics of Aristech Surfaces Opaque Continuous Cast Acrylic and a substrate that imparts outstanding impact resistance and thermoformability.

| Property | Typical Values | Units | Test Method |
|----------------------------------|--------------------|--|----------------------|
| General: | | | |
| Thickness | 0.160 (4.1) | Inch (mm) | — |
| Specific Gravity | 1.085 | — | ASTM D-792 |
| Mechanical: | | | |
| Tensile Strength | 6,600 (45.5) | psi (MPa) | ASTM D-638 |
| Tensile Modulus | 370,000 (2,551) | psi (MPa) | ASTM D-638 |
| Tensile Elongation | 4.4 | % | ASTM D-638 |
| Flexural Strength | 9,100 (62.7) | psi (MPa) | ASTM D-790 |
| (Acrylic in Compression) | | | |
| Flexural Modulus | 340,000 (2,344) | psi (MPa) | ASTM D-790 |
| (Acrylic in Compression) | | | |
| Flexural Strength | 10,800 (74.5) | psi (MPa) | ASTM D-790 |
| (Acrylic in Tension) | | | |
| Flexural Modulus | 326,000 (2,247) | psi (MPa) | ASTM D-790 |
| (Acrylic in Tension) | | | |
| Notched Izod Impact | 2.1 (11.0) | Ft.lbs./in.of notch (kJ/m ²) | ASTM D-256(Method A) |
| Falling Dart Impact | 12.3 (16.7) | Ft.lbs. (J) | FTMS 406 M-1074 |
| Barcol Hardness | 54 | — | ASTM D-2583 |
| Rockwell Hardness (M) | 67 | — | ASTM D-785 |
| Thermal: | | | |
| Hot Forming Temperature | | | |
| (Acrylic Side) | 350-380 (177-193) | °F (°C) | Aristech Method |
| (ABS Side) | 300-340 (149-171) | °F (°C) | Aristech Method |
| Coefficient of Thermal Expansion | 0.000047 (.000085) | in./in./°F (cm/cm/°C) | ASTM D-696 |
| DTUL @ 264 psi(1.82 MPa) | 186.0 (85.6) | °F (°C) | ASTM D-648 |
| Miscellaneous: | | | |
| Water Absorption | 0.19 | % | ASTM D-570 |
| Gardner Gloss (60 Angle) | 87.4 | — | ASTM D-523 |
| Odor | None | — | — |
| Taste | None | — | — |



Note: for cautions and information on exposure to any Aristech Surfaces' product, please see the applicable material safety data sheet.

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