

# Acrylloy 10

Acrylic  
Spartech Plastics

## Message:

Acrylloy 10 combines the highest impact strength of all acrylics with sparkling clarity, outstanding outdoor durability, and ease of fabrication. This performance property balance is excellent for sanitaryware, marine, and automotive aftermarket applications.

| General Information                                     |                              |                   |             |
|---|------------------------------|-------------------|-------------|
| Features  | Durable                      |                   |             |
|   | Good Processability          |                   |             |
|   | Good Weather Resistance      |                   |             |
|   | High Clarity                 |                   |             |
|   | Ultra High Impact Resistance |                   |             |
| Uses  | Automotive Applications      |                   |             |
|   | Marine Applications          |                   |             |
|   | Sanitary Products            |                   |             |
| Appearance  | Clear/Transparent            |                   |             |
| Forms   | Sheet                        |                   |             |
| Physical  | Nominal Value                | Unit              | Test Method |
| Specific Gravity  | 1.15                         | g/cm <sup>3</sup> | ASTM D792   |
| Hardness  | Nominal Value                | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                             | 106                          |                   | ASTM D785   |
| Mechanical  | Nominal Value                | Unit              | Test Method |
| Tensile Modulus   | 1860                         | MPa               | ASTM D638   |
| Tensile Strength (Yield)                                | 37.9                         | MPa               | ASTM D638   |
| Flexural Modulus  | 1860                         | MPa               | ASTM D790   |
| Flexural Strength                                       | 71.0                         | MPa               | ASTM D790   |
| Impact  | Nominal Value                | Unit              | Test Method |
| Notched Izod Impact (23°C)                              | 59                           | J/m               | ASTM D256   |
| Gardner Impact (23°C)                                   | 13.6                         | J                 | ASTM D3029  |
| Thermal   | Nominal Value                | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 76.7                         | °C                | ASTM D648   |
| Flammability  | Nominal Value                |                   | Test Method |
| Flame Rating  | HB                           |                   | UL 94       |
| Optical   | Nominal Value                |                   | Test Method |
| Gardner Gloss   | 90                           |                   | ASTM D523   |

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

