

# Trovidur® ESA-S

Rigid Polyvinyl Chloride

Röchling Engineering Plastics SE & Co. KG

## Message:

- Product characteristics
- Swimming pool approval
- Raised impact strength, high cold impact
- High UV and weather resistance
- Typical field of application
- Toy and leisure equipment
- Drinking and waste water technology

| General Information                          |                            |                   |             |
|--|----------------------------|-------------------|-------------|
| Features                                     | Good UV Resistance         |                   |             |
|  | Good Weather Resistance    |                   |             |
| Uses   | Potable Water Applications |                   |             |
|  | Sporting Goods             |                   |             |
|  | Toys                       |                   |             |
|  | Water Sports Equipment     |                   |             |
| Physical                                     | Nominal Value              | Unit              | Test Method |
| Density                                      | 1.42                       | g/cm <sup>3</sup> | ISO 1183    |
| Water Absorption (Equilibrium, 23°C, 50% RH) | < 3.0                      | %                 | ISO 62      |
| Mechanical                                   | Nominal Value              | Unit              | Test Method |
| Tensile Modulus                              | 2500                       | MPa               | ISO 527-2   |
| Tensile Strain (Break)                       | 20                         | %                 | ISO 527-2   |
| Impact                                       | Nominal Value              | Unit              | Test Method |
| Charpy Notched Impact Strength               | 8.0                        | kJ/m <sup>2</sup> | ISO 179     |
| Thermal                                      | Nominal Value              | Unit              | Test Method |
| CLTE - Flow                                  | 6.0E-5 to 8.0E-5           | cm/cm/°C          | DIN 53752   |
| Heat Deflection Temperature - Vicat B        | 74                         | °C                | ISO 306     |
| Electrical                                   | Nominal Value              | Unit              | Test Method |
| Surface Resistivity                          | > 1.0E+13                  | ohms              | IEC 60093   |
| Volume Resistivity                           | > 1.0E+15                  | ohms · cm         | IEC 60093   |
| Dielectric Constant                          | 3.20                       |                   | IEC 60250   |
| Dissipation Factor (1 MHz)                   | 0.020                      |                   | IEC 60250   |

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