

## VINPOL™ AS0302

### Acrylonitrile-Styrene-Acrylate

Melt Flow: 3.0

Specific Gravity: 1.06

**VINPOL AS0302** is an extrusion grade ASA with good weatherability, chemical resistance, gloss, processability, mechanical properties, and color fastness. Target applications include automotive exteriors, building and construction, antennae, home appliances, and bath/sanitary goods.

| Resin Property                                 | Typical Value   | Units          | Test Method |
|--|-----------------|----------------|-------------|
| Melt Flow Index at 220°C, 10 kg                | 3.0             | g/10 min       | ASTM D-1238 |
| Specific gravity                               | 1.06            | -              | ASTM D-792  |
| Mold Shrinkage (MD), flow at 3.2 mm            | 0.6-0.8         | %              | ASTM D-955  |
| Mold Shrinkage (TD), flow at 3.2 mm            | 0.6-0.8         | %              | ASTM D-955  |
| Tensile Strength at Yield, 5mm/min             | 4,550 (31)      | psi (MPa)      | ASTM D-638  |
| Tensile Strain at Break, 5mm/min               | -               | %              | ASTM D-638  |
| Tensile Modulus, 5mm/min                       | 242,000 (1670)  | psi (MPa)      | ASTM D-638  |
| Tensile Strength at Break, 5mm/min             | 4,270 (29)      | psi (MPa)      | ASTM D-638  |
| Flexural Strength, 2.8 mm/min                  | 5,970 (41)      | psi (MPa)      | ASTM D-790  |
| Flexural Modulus, 2.8 mm/min                   | 199,000 (1,370) | psi (MPa)      | ASTM D-790  |
| Notched Izod Impact Strength, 1/4 inch at 23°C | 2.0 (108)       | ft-lb/in (J/m) | ASTM D-256  |
| Notched Izod Impact Strength, 1/8 inch at 23°C | 5.5 (294)       | ft-lb/in (J/m) | ASTM D-256  |
| Rockwell Hardness, R-Scale                     | 75              | -              | ASTM D-785  |
| HDT, 0.45 MPa, 6.4 mm                          | 158 (73)        | °F (°C)        | ASTM D-648  |
| HDT, 0.45 MPa, 6.4 mm                          | 176 (80)        | °F (°C)        | ASTM D-648  |
| Vicat Softening Temperature, Rate B/50         | 187 (86)        | °F (°C)        | ISO 306     |

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