

General Information
Product Description

MAGNUM™ 3404 Smooth is an excellent general purpose extrusion / thermoforming resin with outstanding processability. The mass (continuous process) ABS technology ensures an ABS resin that combines excellent processability with a stable light base colour that is ideal for self-colouring. The new MAGNUM 'Smooth Series' resins have an ultra low particulate content, which results in a superb surface finish that will enable our customers to produce parts with excellent aesthetics at a lower total cost.

Applications:

- Transportation
- Sanitary ware
- Signage
- Furnishings
- Protective covers
- Marine
- Recreational vehicles

General

| | | | |
|-------------------|--|--|-----------------|
| Material Status | • Commercial: Active | | |
| Availability | • Europe | • Latin America | • North America |
| Features | • Good Processability • Good Surface Finish | • Medium Heat Resistance • Medium Impact Resistance | |
| Uses | • Furniture • General Purpose | • Marine Applications • Protective Coverings | |
| Forms | • Pellets | | |
| Processing Method | • Blow Molding • Injection Molding | • Profile Extrusion • Sheet Extrusion | • Thermoforming |

ASTM & ISO Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-------------------|--------------|
| Density | 1.05 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg) | 6.6 | g/10 min | ISO 1133 |
| Molding Shrinkage | 0.40 to 0.70 | % | ISO 294-4 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 2150 | MPa | ISO 527-1/1 |
| Tensile Stress (Yield) | 43.0 | MPa | ISO 527-2/50 |
| Tensile Strain (Yield) | 2.7 | % | ISO 527-2/50 |
| Flexural Modulus ² | 2100 | MPa | ISO 178 |
| Flexural Stress ² | 70.0 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength 23°C, Injection Molded | 18 | kJ/m ² | ISO 179/1eA |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Annealed) | 101 | °C | ISO 75-2/A |
| Vicat Softening Temperature | 102 | °C | ISO 306/B50 |

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MAGNUM™ 3404 Smooth

Trinseo - ABS Resin

| Flammability | Nominal Value | Unit | Test Method |
|---------------------------|---------------|------|-------------|
| Flame Rating ³ | | | UL 94 |
| 1.5 mm | | HB | |
| 3.0 mm | | HB | |

Processing Information

| Injection | Nominal Value | Unit |
|--------------------|---------------|------|
| Drying Temperature | 80 to 90 | °C |
| Drying Time | 2.0 to 4.0 | hr |

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 mm/min

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

