



This datasheet of **ACRYMID® TT50** from **Röhm GmbH** is provided by the international plastics database **CAMPUS**.

ACRYMID® TT50 | PMMI | Röhm GmbH

Product Texts

PRODUCTPROFIL:

ACRYMID® TT50 is a highly heat distortion-resistant poly(n-methyl methacrylimide) (PMMI). Besides showing the properties common to all ACRYMID® molding compounds, such as

- high heat deflection temperature under load,
- excellent transmission and clarity,
- very high strength and rigidity, as well as
- good weather resistance.

ACRYMID® TT50 is special in that it is

- listed by AMECA.

APPLICATION:

ACRYMID® molding compound is particularly suitable for injection molding of items meant for applications that involve high heat loads.

EXAMPLE:

automotive lighting, lenses, fiber optics, luminaire covers, nameplates, sightglasses.

PROCESSING:

ACRYMID® molding compound can be processed on injection molding machines with standard 3-zone general purpose screws for thermoplastics.

PHYSICAL FORM / PACKAGING:

ACRYMID® is supplied as pellets of uniform size in aluminum-laminated, 25kg polyethylene bags.

Rheological properties	Value	Unit
Melt volume-flow rate, MVR	5	cm ³ /10min
Temperature	260	°C
Load	10	kg
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Mechanical properties	Value	Unit

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Tensile modulus	4000	MPa
Stress at break	80	MPa
Strain at break	3	%
Charpy impact strength, +23°C	20	kJ/m ²

Thermal properties

	Value	Unit
Temp. of deflection under load, 1.80 MPa	132	°C
Temp. of deflection under load, 0.45 MPa	140	°C
Vicat softening temperature, 50°C/h 50N	150	°C
FMVSS	B	-

Other properties

	Value	Unit
Density	1210	kg/m ³

Material specific properties

	Value	Unit
Luminous transmittance	91	%

Characteristics

Processing

Injection Molding

Delivery form

Pellets

Special Characteristics

Light stabilized or stable to light, U.V. stabilized or stable to weather, Heat stabilized or stable to heat, Transparent

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding

PREPROCESSING

Predrying temperature: max. 100 °C

Predrying time in a desiccant-type drier: 2 - 3 h

PROCESSING

Melt temperature: 250 - 280°C

Mold temperature: approx. 110°C

Chemical Media Resistance

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Acetic Acid (5% by mass) (23°C)

Lactic Acid (10% by mass) (23°C)

Sulfuric Acid (38% by mass) (23°C)

Sulfuric Acid (5% by mass) (23°C)

Alcohols

Isopropyl alcohol (23°C)

Hydrocarbons

n-Hexane (23°C)

Mineral oils

SAE 10W40 multigrade motor oil (23°C)

Standard Fuels

Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)

Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)

Diesel fuel (pref. ISO 1817 Liquid F) (23°C)

Other

Water (23°C)

All listed technical data are typical values intended for your guidance.

They are given without obligation and do not constitute a materials specification. Should you have any further questions concerning material behavior or properties, please contact us at the following address :

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