

This datasheet of ACRYMID® TT70 from Röhm GmbH is provided by the international plastics database CAMPUS.

## ACRYMID® TT70 | PMMI | Röhm GmbH

#### **Product Texts**

### PRODUCTPROFIL:

ACRYMID® TT70 is a highly heat distortion-resistant poly(n-methyl methacrylimide) (PMMI).

Besides showing the properties common to all ACRYMID® molding compounds, such as

- · excellent transmission and clarity,
- · very high mechanical strength and rigidity,
- good weather resistance.

ACRYMID® TT70 has the following specific characteristics:

- high stability of the optical characteristics at long-lasting thermal load,
- highest heat deflection temperature under load.

### **APPLICATION:**

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

### **EXAMPLE:**

lenses, light guides, lighting fixtures, covers.

### PROCESSING:

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

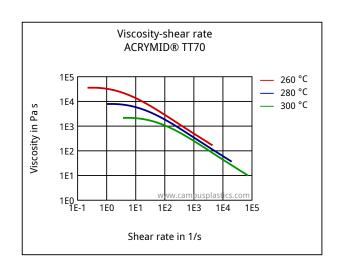
### PHYSICAL FORM / PACKAGING:

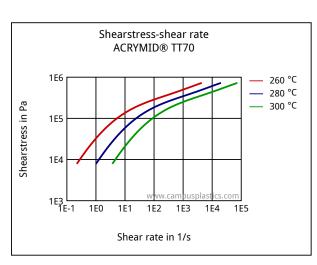
ACRYMID® is supplied as pellets of uniform size in aluminum-laminated, 25kg polyethylene bags.

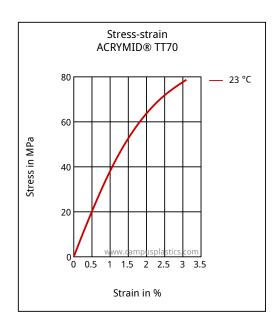
Rheological properties	Value	Unit		
Melt volume-flow rate, MVR	1.7	cm³/10min		
Temperature	260	°C		
Load	10	kg		
Mechanical properties	Value	Unit		
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<b>cookies.</b> Stress at break	80	MPa	Policy	2.000

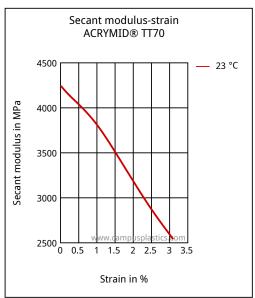
Strain at break	3	%
Charpy impact strength, +23°C	20	kJ/m²
Charpy notched impact strength, +23°C	1.4	kJ/m²
Thermal properties	Value	Unit
Temp. of deflection under load, 1.80 MPa	149	°C
Temp. of deflection under load, 0.45 MPa	158	°C
Vicat softening temperature, 50°C/h 50N	170	°C
FMVSS	В	-
Other properties	Value	Unit
Other properties Water absorption	Value 6	Unit %
• •		
Water absorption	6	%
Water absorption Density	6 1210	% kg/m³
Water absorption Density  Material specific properties	6 1210 Value	% kg/m³ <b>Unit</b>

# **Diagrams**









#### **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. 120 °C

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

**PROCESSING** 

Melt temperature: 260 - 290°C Mold temperature: approx. 130°C

### **Chemical Media Resistance**

### **Acids**

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)

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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:

Röhm GmbH
Deutsche-Telekom-Allee 9
64295 Darmstadt
Germany
E-Mail: plexiglas.polymers@roehm.com
Internet: http://www.plexiglas-polymers.com

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