

**Product Texts**

**Productprofil:**

XT polymer X800RG compound is an impact-modified acrylic-based multipolymer for molding and extrusion applications.

Typical properties of XT® polymer acrylic-based multipolymer compounds are:

- outstanding thermoformability
- superior heat distortion temperatures
- excellent bonding and welding capabilities
- good impact strength
- good light transmission
- resistant to EtO, gamma and E-beam sterilization
- resistant to PVC stabilizers

The special properties of XT polymer X800RG compound are:

- high melt flow rate
- good chemical resistance

**Application:**

Used for food packaging and appliance parts..

**Example:**

Paper towel dispensers, soap dispensers, sporting goods, battery cases and musical instrument casings.

**Processing:**

XT polymer X800RG compound can be processed in injection molding machines and extrusion lines with 3- zone general purpose screws.

**Physical Form / Packaging:**

Available in 1500 lb. gaylord boxes; other packaging available on request.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	4.3	cm <sup>3</sup> /10min	ISO 1133
Temperature	230	°C	-
Load	3.8	kg	-
<sup>[C]</sup> Ejection temperature	77	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	2400	MPa	ISO 527
<sup>[C]</sup> Yield stress	48	MPa	ISO 527
<sup>[C]</sup> Yield strain	3	%	ISO 527
<sup>[C]</sup> Nominal strain at break	7	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	93	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	5.4	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	11	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Vicat softening temperature, B	97	°C	ISO 306

[C]: CAMPUS

**XT® polymer X800RG**

PMMA-I...

Röhm GmbH

Optical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
[C] Luminous transmittance	87	%	ISO 13468-1, -2
[C]: CAMPUS			

Other properties	Value	Unit	Test Standard
[C] Density	1110	kg/m <sup>3</sup>	ISO 1183
[C]: CAMPUS			

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	220 - 245	°C	-
Mold temperature	50 - 80	°C	-

**Characteristics****Processing**

Injection Molding, Other Extrusion, Thermoforming

**Chemical Resistance**

General Chemical Resistance

**Delivery form**

Pellets

**Certifications**

Food contact

**Special Characteristics**

High impact or impact modified, Transparent, Sterilizable, Ethylene Oxide (EtO) Sterilization, Gamma irradiation sterilization, Electron beam (e-beam) sterilization

**Applications**

Packaging, Sports Equipment

**Features**

Good Adhesion, Weldable

**Regional Availability**

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

**Other text information****Injection molding****PREPROCESSING**

Predrying temperature: max. 80 °C

Predrying time : 3 - 4 h

**PROCESSING**

Melt temperature: 220 - 245°C

Mold temperature: 50 - 80°C