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## PRODUCT INFORMATION

# XT® POLYMER 375 acrylic-based copolymer compound

### Product Profile:

XT® POLYMER 375 compound is an impact-modified acrylic-based copolymer for molding, extrusion and blow molding applications.

Typical properties of XT® POLYMER acrylic-based copolymer 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 375 compound are:

- excellent chemical resistance
- high impact strength

### Application:

Used for medical devices, food packaging, pharmaceutical packaging, rigid medical device packaging and appliance parts.

### Examples:

IV accessories, paper towel dispensers, soap dispensers, sporting goods, battery cases and musical instrument casings.

### Processing:

XT® POLYMER 375 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.

**Properties:**

	Parameter	Unit	Standard	XT® POLYMER 375 acrylic- based copolymer compound
<b>Mechanical Properties</b>				
Tensile Modulus	1 mm/min	MPa	ISO 527	2600
Yield Stress	50 mm/min	MPa	ISO 527	56
Yield Strain	50 mm/min	%	ISO 527	3,1
Nominal Strain @ Break		%	ISO 527	12
Charpy Impact Strength	23°C	kJ/m <sup>2</sup>	ISO 179/1eU	84
Charpy Notched Impact Strength	23°C	kJ/m <sup>2</sup>	ISO 179/1	10,4
<b>Thermal Properties</b>				
Vicat Softening Temperature	B / 50	°C	ISO 306	96
Temp. of Deflection under Load	0.45 MPa	°C	ISO 75	97,3
Temp. of Deflection under Load	1.8 MPa	°C	ISO 75	94,8
<b>Rheological Properties</b>				
Melt Volume Rate, MVR	230°C & 3,8kg	cm <sup>3</sup> /10min	ISO 1133	1,54
<b>Optical Properties</b>				
Luminous transmittance	d=3 mm			
	D65	%	ISO 13468-2	85
Haze		%	ASTM D1003	7,3
<b>Other Properties</b>				
Density		g/cm <sup>3</sup>	ISO 1183	1.12
<b>Recommended Processing Conditions</b>				
Predrying Temperature		°C		80
Predrying Time in Desiccant-Type Drier		h		3 - 4
Melt Temperature		°C		205 - 245
Mold Temperature (Injection Molding)		°C		50 - 80

All listed technical data are typical values intended for your guidance. They are given without obligation and do not constitute a materials specification.

Certified to ISO 9001:2015, ISO 14001:2015 and IATF 16949:2016.

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