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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.

### Regulatory and compliance requirements:

Meets requirements of the United States Pharmacopeia Class VI in colorless (000) only; ISO 10993-1 in colorless (000) only and FDA for food contact for all use conditions up to and including hot filled or pasteurized above 150 degrees F (e.g. Condition 21 CFR 176.170) for all food types except those containing more than 8% alcohol.

**Properties:**

	Parameter	Unit	ASTM-Standard	XT® POLYMER 375 acrylic- based copolymer compound
<b>Mechanical Properties</b>				<b>Typical Value</b>
Tensile Strength		psi [MPa]	D 638	7000 [48.3]
Tensile Modulus		x10 <sup>6</sup> psi [GPa]	D 638	0.37 [2.6]
Tensile Elongation @ Yield		%	D 638	4
Tensile Elongation @ Break		%	D 638	12
Flexural Strength		psi [MPa]	D 790	11000 [75.8]
Flexural Modulus		x10 <sup>6</sup> psi [GPa]	D 790	0.35 [2.4]
Notched Izod	¼" bar @23°C	ft-lb/in [J/m]	D 256	2.0 [107]
Notched Izod	¼" bar @0°C	ft-lb/in [J/m]	D 256	1.6 [85]
Rockwell Hardness		M Scale	D 785	45
<b>Thermal Properties</b>				
Vicat Softening Point	50N, 50°C/h	°F [°C]	D 1525	217 [103]
Deflection Temperature, Annealed	1.8MPa, 0.250"	°F [°C]	D 648	186 [86]
Coeff. of Linear Therm. Expansion	32 - 312°F	1/F	D 696	0.00005
Coeff. of Linear Therm. Expansion	0 - 100°C	1/C	D 696	0.00009
<b>Rheological Properties</b>				
Melt Flow Rate	230°C & 5.0 kg	g/10min	D 1238	2.6
<b>Optical Properties</b>				
Light Transmission	d = 3.2 mm	%	D 1003	86
Haze		%	D 1003	2.5
Yellowness Index			E 313	-1.0
<b>Other Properties</b>				
Specific Gravity			D 792	1.11
Water Absorption		% Max	D 570	0.3
Mold Shrinkage		in/in, mm/mm	D 955	0.004 - 0.007
Bulk Density		g/cc	D 1895	0.65

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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The logo for RÖHM, featuring the word "RÖHM" in a bold, black, sans-serif font. The letter "O" has two dots above it, indicating it is a German umlaut.