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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	ASTM-Standart	XT® POLYMER 375 acrylic- based copolymer compound
Mechanical Properties				Typical Value
Tensile Strength		psi [MPa]	D 638	7000 [48.3]
Tensile Modulus		x10 ⁶ 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 ⁶ 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 @23°C	ft-lb/in [J/m]	D 256	1.6 [85]
Rockwell Hardness		1	D 785	45
Thermal Properties				
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
Rheological Properties				
Melt Flow Rate	230°C & 5.0 kg	g/10min	D 1238	2.6
Optical Properties				
	d = 3.2 mm			
Light Transmission		%	D 1003	86
Haze		%	D 1003	2.5
Yellowness Index			E 313	-1.0
Other Properties				
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		in/in, mm/mm	D 1895	0.65
Recommended Processing Conditions				
Predrying Temperature		F [°C]		180 [82]
Predrying Time in Desiccant-Type Drier		h		3 – 4
Melt Temperature		F [°C]		400 - 475 [204 - 246]
Mold Temperature (Injection Molding)		F [°C]		120 - 170 [49 - 77]

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" is replaced by a circle with a horizontal line through it, resembling a stylized "O" or a specific symbol.