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PRODUCT INFORMATION

XT® POLYMER 250 acrylic-based copolymer compound

Product Profile:

XT® POLYMER 250 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 plasticizers

The special properties of XT® POLYMER 250 compound are:

- high strength properties
- good chemical resistance

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 250 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	Standard	XT® POLYMER 250 acrylic- based copolymer compound
Mechanical Properties				
Tensile Modulus	1 mm/min	MPa	ISO 527	2800
Yield Stress	50 mm/min	MPa	ISO 527	60
Yield Strain	50 mm/min	%	ISO 527	3,2
Charpy Impact Strength	23°C	kJ/m²	ISO 179/1eU	58
Charpy Notched Impact Strength	23°C	kJ/m²	ISO 179/1	5,6
Thermal Properties				
Vicat Softening Temperature	B / 50	°C	ISO 306	97
Temp. of Deflection under Load	0.45 MPa	°C	ISO 75	97
Temp. of Deflection under Load	1.8 MPa	°C	ISO 75	96
Rheological Properties				
Melt Volume Rate, MVR	230°C & 3,8kg	cm³/10min	ISO 1133	2,5
Optical Properties				
	d=3 mm			
Luminous transmittance	D65	%	ISO 13468-2	86
Haze		%	ASTM D1003	7,5
Other Properties				
Density		g/cm³	ISO 1183	1.13

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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