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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 | Standard | XT® POLYMER 375 acrylic- based copolymer compound |
|--------------------------------|---------------|------------------------|-------------|---|
| Mechanical Properties | | | | |
| 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 ² | ISO 179/1eU | 84 |
| Charpy Notched Impact Strength | 23°C | kJ/m ² | ISO 179/1 | 10,4 |
| Thermal Properties | | | | |
| 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 |
| Rheological Properties | | | | |
| Melt Volume Rate, MVR | 230°C & 3,8kg | cm ³ /10min | ISO 1133 | 1,54 |
| Optical Properties | | | | |
| Luminous transmittance | d=3 mm | % | ISO 13468-2 | 85 |
| Haze | | % | ASTM D1003 | 7,3 |
| Other Properties | | | | |
| Density | | g/cm ³ | ISO 1183 | 1.12 |
| | | | | |

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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