XT® Polymer 375

Polymethyl Methacrylate Acrylic

Evonik Cyro LLC

Message:

XT polymer 375 compound is an impact-modified acrylic-based multipolymer for molding, extrusion and blow molding applications.
Typical properties of XT® polymer acrylic-based multipolymer 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.

General Information	
UL YellowCard	E54671-244541
Additive	Impact Modifier
Features	Bondability
	E-beam Sterilizable
	Ethylene Oxide Sterilizable
	Food Contact Acceptable
	Good Chemical Resistance
	High Clarity
	High Heat Resistance
	High Impact Resistance
	Impact Modified
	Radiation Sterilizable
	Weldable
Uses	Appliance Components
	Battery Cases
	Food Packaging
	Household Goods
	Medical Packaging
	Medical/Healthcare Applications
	Pharmaceutical Packaging
	Sporting Goods
Agency Ratings	EC 1907/2006 (REACH)

	FDA 21 CFR 176.170
	ISO 10993
	USP Class VI
Appearance	Clear/Transparent
	Colors Available
Forms	Pellets
Processing Method	Blow Molding
	Extrusion
	Injection Molding
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm³	ASTM D792
Apparent Density	0.65	g/cm³	ASTM D1895
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	2.6	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Water Absorption (Equilibrium)	< 0.30	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	45		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2550	MPa	ASTM D638
Tensile Strength	48.3	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	4.0	%	
Break	28	%	
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	75.8	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
0°C, 6.35 mm	85	J/m	
23°C, 6.35 mm	110	J/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Annealed, 6.35 mm)	85.6	°C	ASTM D648
Vicat Softening Temperature	103	°C	ASTM D1525
CLTE - Flow (0 to 100°C)	9.0E-5	cm/cm/°C	ASTM D696
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance (3200 µm)	86.0	%	ASTM D1003
Haze (3200 µm)	2.5	%	ASTM D1003
Yellowness Index (3.20 mm)	-1.0	YI	Internal Method

Recommended distributors for this material

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