# XT® Polymer 250

## Polymethyl Methacrylate Acrylic

Evonik Cyro LLC

#### Message:

XT polymer 250 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 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.

General Information				
UL YellowCard	E54671-244532			
Additive	Impact Modifier			
Features	Bondability			
	E-beam Sterilizable			
	Ethylene Oxide Sterilizable			
	Food Contact Acceptable			
	Good Chemical Resistance			
	Good Impact Resistance			
	High Clarity			
	High Heat Resistance			
	High Strength			
	Impact Modified Radiation Sterilizable			
	Weldable			
Uses	Appliance Components			
	Battery Cases			
	Food Packaging			
	Household Goods			
	Medical Packaging			
	Medical/Healthcare Applications			
	Pharmaceutical Packaging			
	Sporting Goods			

### 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)	4.2	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)	56		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2960	MPa	ASTM D638
Tensile Strength	55.2	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	4.0	%	
Break	15	%	
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	89.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
0°C, 6.35 mm	48	J/m	
23°C, 6.35 mm	64	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, 6.35 mm)	87.2	°C	ASTM D648
Vicat Softening Temperature	101	°C	ASTM D1525
CLTE - Flow (0 to 100°C)	7.2E-5	cm/cm/°C	ASTM D696
Optical	Nominal Value	Unit	Test Method
Transmittance (3200 μm)	90.0	%	ASTM D1003
Haze (3200 µm)	2.5	%	ASTM D1003

Yellowness Index (3.20 mm)	4.0	YI	Internal Method

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# Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

