

XT® Polymer X800RG

Polymethyl Methacrylate Acrylic

Evonik Cyro LLC

Message:

XT polymer X800RG compound is an impact-modified acrylic-based multipolymer for molding and extrusion 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 X800RG compound are:

high melt flow rate

good chemical resistance

Application:

Used for food packaging and appliance parts.

General Information	
UL YellowCard	E54671-244586
Additive	Impact Modifier
Features	Bondability
	E-beam Sterilizable
	Ethylene Oxide Sterilizable
	Food Contact Acceptable
	Good Chemical Resistance
	Good Impact Resistance
	High Clarity
	High Flow
	High Heat Resistance
	Impact Modified
	Radiation Sterilizable
	Weldable
Uses	Appliance Components
	Battery Cases
	Food Packaging
	Household Goods
	Sporting Goods
Agency Ratings	EC 1907/2006 (REACH)
	FDA 21 CFR 176.170
	USP Class VI

Appearance	Clear/Transparent Colors Available
Forms	Pellets
Processing Method	Extrusion Injection Molding Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm ³	ASTM D792
Apparent Density	0.65	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	11	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)	22		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2960	MPa	ASTM D638
Tensile Strength	43.4	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	4.0	%	
Break	6.0	%	
Flexural Modulus	2210	MPa	ASTM D790
Flexural Strength	66.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
0°C, 6.35 mm	64	J/m	
23°C, 6.35 mm	100	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	93.9	°C	ASTM D1525
CLTE - Flow (0 to 100°C)	8.6E-5	cm/cm/°C	ASTM D696
Optical	Nominal Value	Unit	Test Method
Transmittance (3200 μm)	86.0	%	ASTM D1003
Haze (3200 μm)	5.0	%	ASTM D1003
Yellowness Index (3.20 mm)	-1.0	YI	Internal Method

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