

**TECHNICAL DATA SHEET**

# XANTAR™ MX 1001

Mitsubishi EP  
PC-I FR(16)

**Processing**

Injection molding, Thermoforming

**Delivery Form**

Pellets

**Additives**

Release agent

**Special Characteristics**

Flame retardant, Platable, High impact or impact modified,  
Heat stabilized or stable to heat

## Product Text

**Product Information**

Impact Modified, Flame Retardant, Good Flow

ISO 1043 PC-I FR(16)

XANTAR Polycarbonate & Blends, your global partner for innovative added value

Processing/Physical Characteristics	Value	Unit	Standard
Melt volume-flow rate, MVR	21	cm <sup>3</sup> /10min	ISO 1133
Temperature	300	°C	
Load	1.2	kg	
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Mechanical Properties	Value	Unit	Standard
Tensile modulus	2200	MPa	ISO 527
Yield stress	55	MPa	ISO 527
Yield strain	6	%	ISO 527
Nominal strain at break	>50	%	ISO 527
Poisson's ratio	0.35		ISO 527
Thermal Properties	Value	Unit	Standard
Temp. of deflection under load, 1.80 MPa	115	°C	ISO 75-1/-2
Vicat softening temperature, B	135	°C	ISO 306
Coeff. of linear therm. expansion, parallel	65	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10

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Thermal Properties	Value	Unit	Standard
Thickness tested	1.5	mm	
Yellow card available	yes		
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.75	mm	
Oxygen index	35	%	ISO 4589-1/-2
Electrical Properties	Value	Unit	Standard
Relative permittivity, 100Hz	2.9		IEC 62631-2-1
Relative permittivity, 1MHz	2.8		IEC 62631-2-1
Dissipation factor, 100Hz	6.6	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	92	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	29	kV/mm	IEC 60243-1
Other Properties	Value	Unit	Standard
Water absorption	0.35	%	Sim. to ISO 62
Density	1200	kg/m <sup>3</sup>	ISO 1183
Test Specimen Production	Value	Unit	Standard
Injection molding, melt temperature	290	°C	ISO 294
Injection molding, mold temperature	80	°C	ISO 294
Processing Recommendation Injection Molding	Value	Unit	Standard
Pre-drying - temperature	110	°C	
Pre-drying - time	4	h	
Processing humidity	≤0.03	%	
Melt temperature	270 - 290	°C	
Mold temperature	70 - 100	°C	
Zone 1	255 - 265	°C	
Zone 2	265 - 275	°C	
Zone 3	270 - 280	°C	
Nozzle temperature	260 - 270	°C	

## ***Injection molding***

Injection Molding Recommendations