



XANTAR® MX 1000						
PC-I FR(16)	Mitsubishi Engineering-Plastics Corporation					
Product Texts						
Impact Modified, Flame Retardant, High Flow						
ISO 1043 PC-I FR(16)						
<u>XANTAR® Polycarbonate & Blends, your global partner for innovative added value</u>						
Rheological properties	Value	Unit	Test Standard			
ISO Data						
Melt volume-flow rate, MVR	30	cm ³ /10min	ISO 1133			
Temperature	300	°C	ISO 1133			
Load	1.2	kg	ISO 1133			
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577			
Mechanical properties	Value	Unit	Test Standard			
ISO Data						
Tensile Modulus	2200	MPa	ISO 527-1/-2			
Yield stress	55	MPa	ISO 527-1/-2			
Yield strain	6	%	ISO 527-1/-2			
Nominal strain at break	>50	%	ISO 527-1/-2			
Thermal properties	Value	Unit	Test Standard			
ISO Data						
Temp. of deflection under load (1.80 MPa)	115	°C	ISO 75-1/-2			
Vicat softening temperature, 50°C/h 50N	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			
Thickness tested	1.5	mm	IEC 60695-11-10			
UL recognition	UL	-	-			
Burning behav. at thickness h	V-0	class	IEC 60695-11-10			
Thickness tested	3.0	mm	IEC 60695-11-10			
UL recognition	UL	-	-			
Burning behav. 5V at thickness h	5VB	class	IEC 60695-11-20			
Thickness tested	2.0	mm	IEC 60695-11-20			
UL recognition	UL	-	-			
Oxygen index	33	%	ISO 4589-1/-2			
Electrical properties	Value	Unit	Test Standard			
ISO Data						
Relative permittivity, 100Hz	2.9	-	IEC 60250			
Relative permittivity, 1MHz	2.8	-	IEC 60250			
Dissipation factor, 100Hz	6.6	E-4	IEC 60250			
Dissipation factor, 1MHz	92	E-4	IEC 60250			
Volume resistivity	>1E13	Ohm*m	IEC 60093			
Surface resistivity	>1E15	Ohm	IEC 60093			
Electric strength	29	kV/mm	IEC 60243-1			
Other properties	Value	Unit	Test Standard			
ISO Data						
Water absorption	0.35	%	Sim. to ISO 62			
Density	1190	kg/m ³	ISO 1183			
Rheological calculation properties	Value	Unit	Test Standard			
ISO Data						

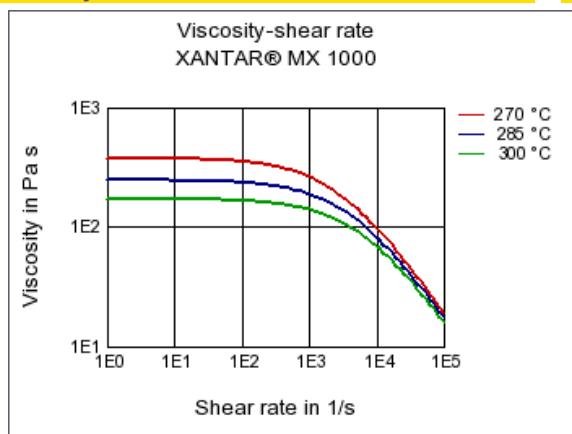
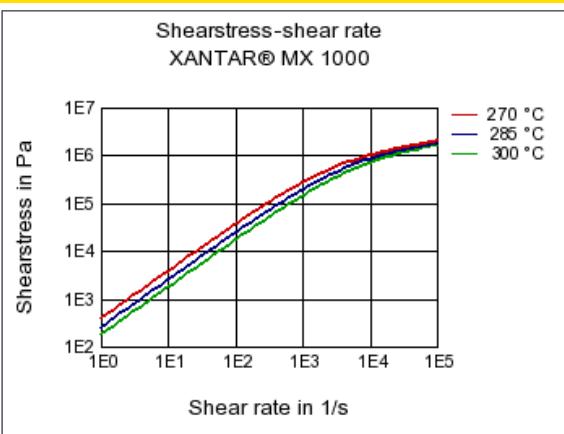
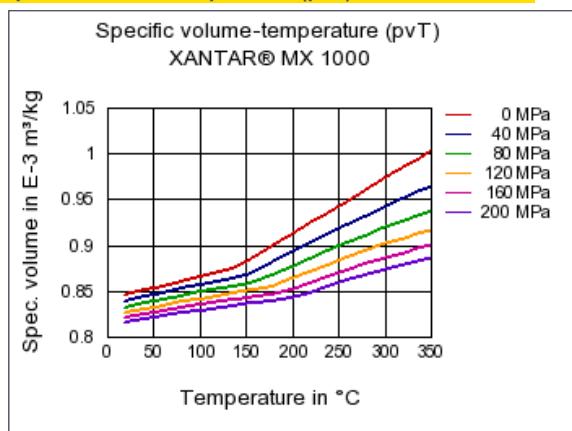
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Mitsubishi Engineering-Plastics Corporation

Density of melt	1010	kg/m ³	-
Thermal conductivity of melt	0.24	W/(m K)	-
Spec. heat capacity of melt	1710	J/(kg K)	-
Eff. thermal diffusivity	1.4E-7	m ² /s	-
Ejection temperature	128	°C	-

Test specimen production ISO Data	Value	Unit	Test Standard
Injection Molding, melt temperature	290	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 10724

Diagrams**Viscosity-shear rate****Shearstress-shear rate****Specific volume-temperature (pvT)****Characteristics****Processing**

Injection Molding, Other Extrusion, Thermoforming

Additives

Release agent

Delivery form

Pellets

Special Characteristics

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

Other text information**Injection Molding**[Injection Molding Recommendations](#)