

**Product Texts**

High Viscosity, Molding Release

ISO 1043 PC

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Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	5	cm <sup>3</sup> /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
<sup>[C]</sup> Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
<sup>[C]</sup> Density of melt	1010	kg/m <sup>3</sup>	-
<sup>[C]</sup> Thermal conductivity of melt	0.24	W/(m K)	-
<sup>[C]</sup> Spec. heat capacity of melt	1710	J/(kg K)	-
<sup>[C]</sup> Eff. thermal diffusivity	1.4E-7	m <sup>2</sup> /s	-
<sup>[C]</sup> Ejection temperature	131	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	2300	MPa	ISO 527
<sup>[C]</sup> Yield stress	60	MPa	ISO 527
<sup>[C]</sup> Yield strain	6	%	ISO 527
<sup>[C]</sup> Nominal strain at break	>50	%	ISO 527

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	130	°C	ISO 75-1/-2
<sup>[C]</sup> Vicat softening temperature, B	150	°C	ISO 306
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	65	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn.	V-2	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-
<sup>[C]</sup> Burning Behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
Yellow Card available	yes	-	-
<sup>[C]</sup> Oxygen index	26	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Relative permittivity, 100Hz	3	-	IEC 62631-2-1
<sup>[C]</sup> Relative permittivity, 1MHz	2.9	-	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 100Hz	6.6	E-4	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 1MHz	92	E-4	IEC 62631-2-1
<sup>[C]</sup> Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	>1E15	Ohm	IEC 62631-3-2
<sup>[C]</sup> Electric strength	29	kV/mm	IEC 60243-1
<sup>[C]</sup> Comparative tracking index	225	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Water absorption	0.35	%	Sim. to ISO 62
<sup>[C]</sup> Density	1200	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**XANTAR™ 25 R**

PC

Mitsubishi Engineering-Plastics Corporation

Material specific properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Viscosity number	63	cm <sup>3</sup> /g	ISO 307, 1157, 1628

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Injection Molding, melt temperature	300	°C	ISO 294
Injection Molding, mold temperature	90	°C	ISO 294

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.03	%	-
Melt temperature	290 - 320	°C	-
Mold temperature	80 - 120	°C	-
Zone 1	260 - 280	°C	-
Zone 2	270 - 290	°C	-
Zone 3	280 - 300	°C	-
Nozzle temperature	270 - 290	°C	-

**Characteristics****Processing**

Injection Molding, Other Extrusion, Blow Molding

**Special Characteristics**

Heat stabilized or stable to heat, Transparent

**Delivery form**

Pellets

**Regional Availability**

Europe

**Additives**

Release agent

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