

## Mitsubishi Xantar<sup>®</sup> C CM 406 FD C CM 406 Polycarbonate/ABS Blend (European Grade)

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

### Material Notes:

Xantar<sup>®</sup> materials are engineered for performance, consistency and reliability. This makes Xantar<sup>®</sup> resins ideal for interior automotive components, electrical equipment and consumer appliances where quality is a key requirement. The Xantar<sup>®</sup> range includes: clear and tinted grades for transparent applications reinforced materials Flame retardant and halogen free types lubricated materials for added wear resistance Mitsubishi Engineering Plastics acquired the Xantar<sup>®</sup> product line from DSM in 2010.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Mitsubishi-Xantar-C-CM-406-FD-C-CM-406-PolycarbonateABS-Blend-European-Grade.php](http://www.lookpolymers.com/polymer_Mitsubishi-Xantar-C-CM-406-FD-C-CM-406-PolycarbonateABS-Blend-European-Grade.php)

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.60 %	0.60 %	Sim. to ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	Humidity Absorption; Sim. to ISO 62
Melt Flow	27.12 g/10 min @Load 5.00 kg, Temperature 260 °C	27.12 g/10 min @Load 11.0 lb, Temperature 500 °F	Calculated from Volume Flow Rate of 24 cm <sup>3</sup> /10min.; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	ISO 527-1/-2
Tensile Modulus	2.20 GPa	319 ksi	ISO 527-1/-2
Flexural Strength	80.0 MPa	11600 psi	ISO 178
Flexural Modulus	2.25 GPa	326 ksi	ISO 178
Izod Impact, Notched (ISO)	35.0 kJ/m <sup>2</sup> @Temperature -40.0 °C	16.7 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	ISO 180/4A
	55.0 kJ/m <sup>2</sup> @Temperature -20.0 °C	26.2 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	ISO 180/4A
	65.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	30.9 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180/4A

Mechanical Properties	Metric	English	Comments
Charpy Impact Unnotched	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eU
	NB	NB	ISO 179/1eU
Charpy Impact, Notched	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/1eA
	2.00 J/cm <sup>2</sup>	9.52 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eA
	4.00 J/cm <sup>2</sup>	19.0 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	105 °C	221 °F	ISO 75-1/-2
Vicat Softening Point	120 °C	248 °F	50°C/h 50N; ISO 306
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	
Oxygen Index	22 %	22 %	ISO 4589-1/-2
Glow Wire Test	675 °C	1250 °F	Glow Wire Flammability Index; IEC 60695-2-12
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	675 °C	1250 °F	Glow Wire Flammability Index; IEC 60695-2-12
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	700 °C	1290 °F	Glow Wire Ignition Temperature; IEC 60695-2-13
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	700 °C	1290 °F	Glow Wire Ignition Temperature; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	IEC 60250
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
Comparative Tracking Index	275 V	275 V	IEC 60112
	250 - 399 V	250 - 399 V	PLC 2; UL 746A

Descriptive Properties	Value	Comments
High impact or impact modified	Yes	
Injection molding	Yes	
Release Agent	Yes	
Without Fillers	Yes	

## Contact Songhan Plastic Technology Co.,Ltd.

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