

XANTAR® E EM 605

Polycarbonate + PET

Mitsubishi Engineering-Plastics Corp

Message:

XANTAR® E EM 605 is a Polycarbonate + PET (PC+PET) material. It is available in Europe. Primary attribute of XANTAR® E EM 605: Flame Rated.

General Information			
RoHS Compliance		Contact Manufacturer	
Forms		Pellets	
Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/1.2 kg)	7.00	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow	0.70	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.35	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2
Tensile Stress (Yield)	55.0	MPa	ISO 527-2
Tensile Strain (Yield)	6.0	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	%	ISO 527-2
Flexural Modulus	2200	MPa	ISO 178
Flexural Stress	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	25	kJ/m ²	
23°C	55	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Notched Izod Impact Strength			ISO 180/4A
-40°C	40	kJ/m ²	
-20°C	60	kJ/m ²	
23°C	70	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	120	°C	ISO 75-2/A
Vicat Softening Temperature	130	°C	ISO 306/B50
CLTE			ISO 11359-2
Flow	8.0E-5	cm/cm/°C	
Transverse	8.0E-5	cm/cm/°C	

Flammability	Nominal Value	Test Method
Flammability Classification (1.50 mm)	HB	IEC 60695-11-10, -20
Fill Analysis	Nominal Value	Unit
Specific Heat Capacity of Melt	2110	J/kg/°C
Thermal Conductivity of Melt	0.16	W/m/K

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

