XANTAR® FC 23 UR

Polycarbonate

Mitsubishi Engineering-Plastics Corp

Message:

Medium Viscosity, Flame Retardant, Molding Release, UV Stabilized

General Information	
UL YellowCard	E340159-100749188
Additive	Flame Retardant Mold Release UV Stabilizer
Features	Flame Retardant Good Mold Release Good UV Resistance Medium Viscosity
RoHS Compliance	RoHS Compliant
Forms	Pellets
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1)

Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	7.00	cm³/10min	ISO 1133
Molding Shrinkage - Flow	0.60	%	ISO 294-4
Water Absorption (Saturation, 23°C)	0.35	%	ISO 62
Limiting Viscosity Number	52.0	cm³/g	ISO 1628-4
Thermal Conductivity of Melt	0.24	W/m/K	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	70		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2300	MPa	ISO 527-2
Tensile Stress (Yield)	60.0	MPa	ISO 527-2
Tensile Strain (Yield)	6.0	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	%	ISO 527-2
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress	90.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**

Notched Izod Impact Strength			ISO 180/4A
-20°C	14	kJ/m²	
23°C	80	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	130	°C	ISO 75-2/A
Vicat Softening Temperature	148	°C	ISO 306/B50
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
CLTE - Flow	6.5E-5	cm/cm/°C	ISO 11359-2
RTI Elec			UL 746
1.50 mm	130	°C	
3.00 mm	130	°C	
RTI Imp			UL 746
1.50 mm	125	°C	
3.00 mm	125	°C	
RTI Str			UL 746
1.20 mm	125	°C	
3.00 mm	130	°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	29	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.00		
1 MHz	2.90		
Dissipation Factor			IEC 60250
100 Hz	6.6E-4		
1 MHz	9.2E-3		
Comparative Tracking Index (CTI)	PLC 2		UL 746
Comparative Tracking Index	225	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flammability Classification			IEC 60695-11-10, -20
1.50 mm	V-0		
	V-0		
3.00 mm	5VA		
Glow Wire Flammability Index			IEC 60695-2-12
1.50 mm	960	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
1.50 mm	825	°C	

3.00 mm	850	°C	
Oxygen Index	35	%	ISO 4589-2

Recommended distributors for this material

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