

XANTAR® RX 2121

Polycarbonate
Mitsubishi Engineering-Plastics Corp

Message:
Low Viscosity, Flame Retardant, Molding Release, High reflectivity

General Information			
Additive	Flame Retardant		
	Mold Release		
Features	Flame Retardant		
	Good Mold Release		
	High Reflectivity		
	Low Viscosity		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	12.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow	0.60	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.35	%	ISO 62
Viscosity Number	46.0	cm ³ /g	ISO 1628-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	70		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ISO 527-2
Tensile Stress (Yield)	58.0	MPa	ISO 527-2
Tensile Strain (Yield)	6.0	%	ISO 527-2
Nominal Tensile Strain at Break	20	%	ISO 527-2
Flexural Modulus	2600	MPa	ISO 178
Flexural Stress	85.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	65	kJ/m ²	ISO 180/4A
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

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		
Flammability	Nominal Value	Unit	Test Method
Flammability Classification (2.00 mm)	V-0		IEC 60695-11-10, -20
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
Fill Analysis	Nominal Value	Unit	
Thermal Conductivity of Melt	0.24	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



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