Iupilon™ EFT2201U

Mitsubishi Engineering-Plastics Corp - *Polycarbonate*

General Information

Product Description			
Flame Retardant, Non Br & Non P, Clear, Extrusion, UV stabillized			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Flame Retardant	• UV Stabilizer	
Features	• Bromine Free • Flame Retardant • Good Weather Resistance	• High Clarity • High Viscosity • Light Stabilized	• Low (to None) Phosphorus Content • UV Stabilized
Uses	• General Purpose		
Appearance	• Clear/Transparent		
Processing Method	• Extrusion		

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.20	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	5.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	5.0	cm³/10min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	0.50 to 0.70	%	
Flow	0.50 to 0.70	%	
Water Absorption (Saturation, 73°F)	0.24	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	348000	psi	ISO 527-1/1
Tensile Stress (Yield)	9140	psi	ISO 527-2/50
Tensile Strain (Yield)	6.0	%	ISO 527-2/50
Tensile Strain (Break)	100	%	ISO 527-2/50
Flexural Modulus [2]	341000	psi	ISO 178
Flexural Stress [2]	14100	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	33	ft·lb/in²	ISO 179
Charpy Unnotched Impact Strength (73°F)	No Break		ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	277	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	257	°F	ISO 75-2/A
CLTE - Flow	3.6E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	3.7E-5	in/in/°F	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	6.0E+15	ohms	IEC 60093
Volume Resistivity	3.0E+16	ohms·cm	IEC 60093
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.06 in	V-1		
0.08 in	V-0		

Processing Information

Injection	**Nominal Value**	**Unit**
Drying Temperature - Hot Air Dryer	248	°F
Drying Time - Hot Air Dryer	4.0 to 8.0	hr
Rear Temperature	518 to 572	°F

Middle Temperature	518 to 572 °F
Front Temperature	518 to 572 °F
Nozzle Temperature	518 to 572 °F
Mold Temperature	158 to 212 °F

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 0.079 in/min