



Mitsubishi Engineering-Plastics Corp.

Iupilon™ DS3205VUR

Mitsubishi Engineering-Plastics Corp - Polycarbonate

General Information			
Product Description			
Light Diffusion, Low class			
General			
Features	• Good Light Diffusion	• Low Light Diffusion	
Uses	• Displays • LEDs	• Lighting Applications • Lighting Diffusers	
ASTM & ISO Properties ¹			
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	20	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	20	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	0.50 to 0.70	%	
Flow	0.50 to 0.70	%	
Water Absorption (Saturation, 23°C)	0.24	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ISO 527-1/1
Tensile Stress (Yield)	63.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	6.0	%	
Break	110	%	
Flexural Modulus ²	2400	MPa	ISO 178
Flexural Stress ²	96.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	40	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	136	°C	ISO 75-2/B
1.8 MPa, Unannealed	122	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	6.5E-5	cm/cm/°C	
Transverse	6.6E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	6.0E+15	ohms	IEC 60093
Volume Resistivity	3.0E+16	ohms·cm	IEC 60093
Comparative Tracking Index (CTI)	PLC 3		UL 746A



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Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.40 mm)	V-2		UL 94

Processing Information			
Injection	Nominal Value	Unit	
Drying Temperature - Hot Air Dryer	120	°C	
Drying Time - Hot Air Dryer	4.0 to 8.0	hr	
Rear Temperature	270 to 300	°C	
Middle Temperature	270 to 300	°C	
Front Temperature	270 to 300	°C	
Nozzle Temperature	270 to 300	°C	
Mold Temperature	70 to 100	°C	

