

WONDERLITE® PC-681U

PC, Non-halogen Flame Retardant, available in translucent

PROPERTIES	CONDITION	VALUE	UNIT	METHOD
<u>PHYSICAL</u>				
Specific Gravity	23°C	1.20		ISO 1183
Melt Volume-Flow Rate	300°C/1.2kg	10	cm ³ /10min	ISO 1133
Mold Shrinkage		0.4~0.6	%	ISO 2577
CLTE	Flow:23-55°C	6.50E-05	cm/cm/°C	ISO11359-2
<u>MECHANICAL</u>				
Tensile Strength @ Yield	50mm/min	60	MPa	ISO 527
Tensile Strength @ break	50mm/min	65	MPa	ISO 527
Tensile Elongation @ Break	50mm/min	120	%	ISO 527
Flexural Strength	2mm/min	90	MPa	ISO 178
Flexural Modulus	2mm/min	2300	MPa	ISO 178
Izod Impact (3.2mm)	Notched, 23°C	65	kJ/m ²	ISO 180
Izod Impact (3.2mm)	Notched, -30°C	60	kJ/m ²	ISO 180
Charpy Impact (3.2mm)	Notched, 23°C	65	kJ/m ²	ISO 179
Charpy Impact (3.2mm)	Notched, -30°C	60	kJ/m ²	ISO 179
<u>THERMAL</u>				
Heat Distortion Temp. (unannealed)	4mm,1.82MPa	125	°C	ISO 75
	4mm,0.45MPa	140		
Vicat Softening Temp. (unannealed)	1kg, 50°C/hr	150	°C	ISO 306
	5kg, 50°C/hr	145		
<u>ELECTRICAL</u>				
Dielectric Constant	1MHz	3	--	IEC 60250
Volume Resistivity	--	1E+16	Ohm*m	IEC 60093
Surface Resistivity	--	1E+16	Ohm	IEC 60093
<u>FLAMMABILITY</u>				
Flame Rating		1.5mm V0		UL-94
<u>PROCESSING PARAMETERS</u>				
Drying Temperature		120	°C	
Drying Time		4	Hrs	
Barrel Temperature		270~300	°C	
Mold Temperature		70~100	°C	

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