

EPC DPONATE 2000U

DESCRIPTION

This PC material is unfilled grade that offers high flow rate for easier complex mold filling, easy to process thin wall articles with moderate injection pressure, faster cycle time, suitable for a wide range of applications UV stabilized, easy release for simplified molding. Availability in a range of opaque colors to suit various electrical article requirements.

TECHNICAL DATA SHEET

PROPERTIES	TEST METHOD	TYPICAL VALUES	UNITS
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RHEOLOGICAL PROPERTIES

MVR at 300°C, 1.2kg Load	ISO 1133	20	CC/10min
MFR at 300°C, 1.2kg Load	ISO 1133	21	g/10min

MECHANICAL PROPERTIES

Tensile Stress, yield, 50 mm/min	ISO 527	70	MPa
Tensile Strain at break, 50 mm/min	ISO 527	75	%
Tensile Modulus, 1 mm/min	ISO 527	2500	MPa
Flexural Stress, yield, 2 mm/min	ISO 178	95	MPa
Flexural Modulus, 2 mm/min	ISO 178	2700	MPa
Izod Impact, notched 80*10*3 +23°C	ISO 180/1A	65	kJ/m ²

THERMAL PROPERTIES

Vicat Softening Temperature	ISO 306/B50	140	°C
Vicat Softening Temperature	ISO 306/B120	142	°C
HDT/Ae, 1.8 MPa	ISO 75-2/A	122	°C
HDT/Ae, 0.45 MPa	ISO 75-2/A	136	°C

PHYSICAL PROPERTIES

Density	ISO 1183	1.2	g/cm ³
Moisture (23°C / 50% RH)	ISO 62	≤0.3	%

PROPERTIES	TEST METHOD	TYPICAL VALUES	UNITS
FLAMMABILITY			
GWFI @ 875°C, 3mm	IEC 60695-2-12	PASS	°C

INJECTION MOLDING		
Drying Temperature	120	°C
Drying Time	4	Hrs.
Maximum Moisture Content	≤ 0.02	%
Melt Temperature	280 – 320	°C
Nozzle Temperature	290 – 300	°C
Front - Zone 3 Temperature	280 – 290	°C
Middle - Zone 2 Temperature	270 – 280	°C
Rear - Zone 1 Temperature	250 – 260	°C
Mold Temperature	80 – 110	°C

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