

RTP 303 SE

PC-GF20

RTP Company

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.00225	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	5861	MPa	ASTM D 638
Tensile Strength	103	MPa	ASTM D 638
Flexural Modulus	5516	MPa	ASTM D 790
Flexural Strength	165	MPa	ASTM D 790
Rockwell Hardness	R 118	-	ASTM D 785
Izod Impact notched, 1/8 in	144	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	V-2	-	UL 94
Thickness tested	1.59	mm	-
DTUL @ 66 psi	149	°C	ASTM D 648
DTUL @ 264 psi	143	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	19.3	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.008	-	ASTM D 150
Dielectric Constant, 1 MHz	3.2	-	ASTM D 150
Arc Resistance	120	s	ASTM D 495

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.1	%	ASTM D 570
Density	1330	kg/m ³	ASTM D 792
Moisture Content	0.02	%	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	121	°C	-
Pre-drying - Time	4	h	-
Melt temperature	288 - 316	°C	-
Mold temperature	82.2 - 121	°C	-
Injection pressure	68.9 - 103	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific