

RTP 1003 FR A

PBT-GF20

RTP Company

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.005	mm/mm	ASTM D 955
Mechanical properties			
ASTM Data			
Tensile Modulus	8274	MPa	ASTM D 638
Tensile Strength	110	MPa	ASTM D 638
Flexural Modulus	6895	MPa	ASTM D 790
Flexural Strength	165	MPa	ASTM D 790
Rockwell Hardness	R 118	-	ASTM D 785
Izod Impact notched, 1/8 in	53.4	J/m	ASTM D 256
Thermal properties			
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.794	mm	-
DTUL @ 66 psi	210	°C	ASTM D 648
DTUL @ 264 psi	191	°C	ASTM D 648
Electrical properties			
ASTM Data			
Dielectric Strength, Short Time	19.7	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.02	-	ASTM D 150
Dielectric Constant, 1 MHz	3.5	-	ASTM D 150
Other properties			
Water Absorption, 24hr	0.07	%	ASTM D 570
Density	1560	kg/m ³	ASTM D 792
Moisture Content	0.03	%	-
Processing Recommendation Injection Molding			
Pre-drying - Temperature	121	°C	-
Pre-drying - Time	4	h	-
Melt temperature	238 - 271	°C	-
Mold temperature	79.4 - 107	°C	-
Injection pressure	68.9 - 103	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Flame retardant