

Dupital

Polyacetal Resin

Properties	Test Method	Terms	Units	FT2010	FT2020
				Whisker Filled	Whisker Filled
				Whisker 10%	Whisker 20%
Physical properties					
Density	ISO 1183	-	g/cm ³	1.49	1.59
Water absorption	-	23degC, 60%RH	%	0.23	0.23
Rheological properties					
Melt Mass-flow Rate	ISO 1133	Temperature	g/10min	7.5	5.5
Melt Volume-flow Rate			cm ³ /10min	5.9	4.0
			degC	190	190
		Load	kg	2.16	2.16
Moulding shrinkage (3mmt)	-	MD	%	1.7	0.9
		TD		-	-
Mechanical properties					
Tensile modulus	ISO 527-1 , 527-2	-	MPa	5200	7800
Yield stress			-	-	
Yield strain			%	-	-
Nominal strain at break			-	-	
Stress at break			MPa	73	87
Strain at break	%	5.5	4.5		
Flexural strength	ISO 178	-	MPa	120	160
Flexural modulus			4800	7600	
Charpy impact strength	ISO 179-1 , 179-2	23 degC	kJ/m ²	90	50
Charpy notched impact strength		23 degC	kJ/m ²	5.0	4.0
Thermal properties					
Melting temperature	ISO 11357-3		degC	166	166
Temperature of deflection under load	ISO 75-1 , 75-2	1.80MPa 0.45MPa	degC	140 160	154 163
Coefficient of Linear thermal expansion	ISO 11359-2	MD TD	1/degC	- -	- -
Flammability	UL94	0.8mmt	-	HB	HB
Electrical properties					
Relative permittivity	IEC 60250	100Hz 1MHz	- -	- -	- -
Dissipation factor	IEC 60250	100Hz 1MHz	- -	- -	- -
Volume resistivity	IEC 60093	-	ohm-m	-	-
Surface resistivity	IEC 60093	-	ohm	-	-
Electric strength	IEC 60243-1	1mmt 3mmt	MV/m	- -	- -
Comparative tracking index	IEC 60112	-	-	-	-

The listed properties are portrayed as general information only and are not product specifications.

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