

Dupital

Polyacetal Resin

Properties	Test Method	Terms	Units	Other quality-Improved	
				V20-HE	V20-HT
				-	-
Physical properties					
Density	ISO 1183	-	g/cm ³	1.39	1.38
Water absorption	-	23degC, 60%RH	%	-	-
Rheological properties					
Melt Mass-flow Rate	ISO 1133	Temperature	g/10min	10.0	11.0
Melt Volume-flow Rate			cm ³ /10min	-	-
			degC	190	190
		Load	kg	2.16	2.16
Moulding shrinkage (3mmt)	-	MD	%	2.0	1.9
		TD		-	-
Mechanical properties					
Tensile modulus	ISO 527-1 , 527-2	-	MPa	1900	1700
Yield stress			48	42	
Yield strain			%	8	7
Nominal strain at break			43	57	
Stress at break			MPa	-	-
Strain at break	%	-	-		
Flexural strength	ISO 178	-	MPa	67	61
Flexural modulus				1800	1700
Charpy impact strength	ISO 179-1 , 179-2	23 degC	kJ/m ²	-	-
Charpy notched impact strength		23 degC	kJ/m ²	5	5
Thermal properties					
Melting temperature	ISO 11357-3		degC	-	-
Temperature of deflection under load	ISO 75-1 , 75-2	1.80MPa 0.45MPa	degC	85	84
Coefficient of Linear thermal expansion	ISO 11359-2	MD TD	1/degC	-	-
Flammability	UL94	0.8mmt	-	-	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	7.0E+14	1.0E+13
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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