

Jupiter

Polyacetal Resin

				Standard				
Properties	Test Method	Terms	Units	F10	F20	F25	F30	F40
				High Viscosity	Medium Viscosity	Medium Viscosity	Low Viscosity	Low Viscosity
				-01: No lubrication		-02: Standard	-03: Low mould deposit	
Physical properties								
Density	ISO 1183	-	g/cm ³	1.41	1.41	1.41	1.41	1.41
Water absorption	-	23degC, 60%RH	%	0.22	0.22	0.22	0.22	0.22
Rheological properties								
Melt Mass-flow Rate	ISO 1133	Temperature Load	g/10min cm ³ /10min degC kg	2.5	9.0	16	27	52
Melt Volume-flow Rate				2.2	7.7	14	23	45
Moulding shrinkage (3mmt)		MD TD	%	190	190	190	190	190
2.16	2.16	2.16	2.16	2.16	2.16	2.16	2.16	2.16
Mechanical properties								
Tensile modulus	ISO 527-1 , 527-2	-	MPa	2800	2900	2900	2900	2900
Yield stress				63	64	64	64	64
Yield strain				10	8.5	8.0	7.5	7.0
Nominal strain at break				33	30	27	25	20
Stress at 50% strain				-	-	-	-	-
Stress at break	ISO 178	-	MPa	-	-	-	-	-
Strain at break				-	-	-	-	-
Flexural strength	ISO 178	-	MPa	89	90	90	91	91
Flexural modulus				2500	2600	2600	2700	2700
Charpy impact strength	ISO 179-1 , 179-2	23 degC	kJ/m ²	280	250	200	150	100
Charpy notched impact strength		23 degC	kJ/m ²	8.0	7.0	6.5	6.0	5.0
Thermal properties								
Melting temperature	ISO 11357-3		degC	166	166	166	166	166
Glass transition temperature	ISO 11357-2		degC	-	-	-	-	-
Temperature of deflection under load	ISO 75-1 , 75-2	1.80MPa 0.45MPa	degC	105 156	105 156	105 156	105 156	105 156
Vicat softening temperature	ISO 306	-	degC	-	-	-	-	-
Coefficient of Linear thermal expansion	ISO 11359-2	MD TD	1/degC	1.1E-04 1.1E-04	1.1E-04 1.1E-04	1.1E-04 1.1E-04	1.1E-04 1.1E-04	1.1E-04 1.1E-04
Flammability	UL94	0.8mmt	-	HB	HB	HB	HB	HB
Electrical properties								
Relative permittivity	IEC 60250	100Hz 1MHz	-	3.9 3.9	3.9 3.9	3.9 3.9	3.9 3.9	3.9 3.9
Dissipation factor	IEC 60250	100Hz 1MHz	-	0.002 0.007	0.002 0.007	0.002 0.007	0.002 0.007	0.002 0.007
Volume resistivity	IEC 60093	-	ohm-m	1.E+12	1.E+12	1.E+12	1.E+12	1.E+12
Surface resistivity	IEC 60093	-	ohm	1.E+16	1.E+16	1.E+16	1.E+16	1.E+16
Electric strength	IEC 60243-1	1mmt 2mmt 3mmt	MV/m	32 - 19	32 - 19	32 - 19	32 - 19	32 - 19
Comparative tracking index		-		600	600	600	600	600

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

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