

Jupiter

Polyacetal Resin

				Low friction and Wear-Resistant		
Properties	Test Method	Terms	Units	LO-21A	FX-11	FX-11J
				Lubricant	Lubricant	Lubricant
				-	-	-
				-	-	-
Physical properties						
Density	ISO 1183	-	g/cm ³	1.41	1.41	1.41
Water absorption	-	23degC, 60% RH	%	0.22	0.22	0.22
Rheological properties						
Melt Mass-flow Rate	ISO 1133	Temperature Load	g/10min	10	10	53
Melt Volume-flow Rate			cm ³ /10min	8.6	8.6	46
			degC	190	190	190
Moulding shrinkage (3mmt)			kg	2.16	2.16	2.16
Moulding shrinkage (3mmt)	-	MD TD	%	2.0	2.1	2.1
Mechanical properties						
Tensile modulus	ISO 527-1 , 527-2	-	MPa	2700	2700	2700
Yield stress			MPa	56	55	55
Yield strain			%	9.0	9.0	7.5
Nominal strain at break			%	40	35	25
Stress at 50% strain			MPa	-	-	-
Stress at break			MPa	-	-	-
Strain at break			%	-	-	-
Flexural strength	ISO 178	-	MPa	80	81	81
Flexural modulus			MPa	2500	2500	2500
Charpy impact strength	ISO 179-1 , 179-2	23 degC	kJ/m ²	150	200	100
Charpy notched impact strength		23 degC	kJ/m ²	7.0	7.0	5.0
Thermal properties						
Melting temperature	ISO 11357-3		degC	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
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
Flammability	UL94	0.8mmt	-	HB	HB	HB
Electrical properties						
Relative permittivity	IEC 60250	100Hz 1MHz	-	-	-	-
Dissipation factor	IEC 60250	100Hz 1MHz	-	-	-	-
Volume resistivity	IEC 60093	-	ohm-m	1.E+12	1.E+12	1.E+12
Surface resistivity	IEC 60093	-	ohm	1.E+16	1.E+16	1.E+16
Electric strength	IEC 60243-1	1mmt 2mmt 3mmt	MV/m	30 - 18	36 - 19	36 - 19
Comparative tracking index		-	-	600	600	600

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

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