

Oupiace

Modified PPE Resin

Properties	Test Method	Terms	Units	Friction/Wear Resistance Improved	
				AHF6010	GHF3010
				Unreinforced	Fiber Reinforced
				PTFE 10%	PTFE 10%
Physical properties					
Density	ISO 1183	-	g/cm ³	1.12	1.37
Water absorption	-	23degC, Underwater	%	0.06	0.10
Rheological properties					
Melt Volume-flow Rate	ISO 1133	Temperature	cm ³ /10min degC	6.2 300	1.9 300
		Load	kg	2.16	2.16
Moulding shrinkage (3.2mmt)	-	MD TD	%	0.5 - 0.7 0.5 - 0.7	0.1 - 0.2 0.2 - 0.4
Mechanical properties					
Tensile modulus	ISO 527-1 , 527-2	23 degC	MPa	2400	8600
Yield stress			51	-	
Yield strain			%	5.0	-
Nominal strain at break			15	-	
Stress at 50% strain			MPa	-	-
Stress at break			%	-	90
Strain at break				-	1.8
Flexural strength	ISO 178	23 degC	MPa	84	130
Flexural modulus				2500	8600
Charpy impact strength	ISO 179-1 , 179-2	23 degC	kJ/m ²	-	-
Charpy notched impact strength		23 degC	kJ/m ²	8	4
Thermal properties					
Temperature of deflection under load	ISO 75-1 , 75-2	1.80MPa 0.45MPa	degC	110 -	120 -
Coefficient of Linear thermal expansion	ISO 11359-2	MD TD	1/degC	6.0E-05 6.0E-05	2.5E-05 6.0E-05
Flammability	UL94	0.75mmt	-	-	-
		1.5mmt	-	HB	HB
		3.0mmt	-	-	-
Electrical properties					
Relative permittivity	IEC 60250	100Hz 1MHz	- -	- -	- -
Dissipation factor	IEC 60250	100Hz 1MHz	- -	- -	- -
Volume resistivity	IEC 60093	-	ohm-m	3.E+14	2.E+14
Surface resistivity	IEC 60093	-	ohm	6.E+15	2.E+15
Electric strength	IEC 60243-1	1mmt 2mmt 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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