MITSUBISHI CHEMICAL GROUP

XANTAR™

Polycarbonate Resin

Properties	Test method	Terms	Units		High Surface hardness
					KH3110UR
					Surface hardness HB
Physical properties					
Density	ISO 1183	-	g/㎤		1.19
Rheological properties					
Melt Volume-flow Rate	ISO 1133	-	cm^3/10min		30
		Test temp.	℃		300
		Test load	kg		1.20
Moulding shrinkage (2mmt)	-	MD	%		0.5-0.7
		TD			0.5-0.7
Mechanical properties					
Tensile modulus	ISO 527-1,2	-	MPa		2,600
Yeild stress					69
Yeild strain			%		6
Nominal strain at break					92
Stress at 50% strain			MPa		-
Stress at break					-
Strain at break			%		-
Flexural strength	ISO 178	-	MPa		103
Flexural modulus					2,400
Charpy impact strength	ISO 179-1, 2	23℃	kJ/㎡		NB
Charpy notched impact strength		23℃			3
Thermal properties					
Melting point	ISO 11357-3	-	℃		-
Temperature of deflection under load	ISO 75-1, 2	1.80MPa	℃		118
		0.45MPa			-
Coefficient of Linear thermal expansion	ISO 11359-2	MD：-30～120℃	1/℃		-
		MD：-30～35℃			-
		MD：35～120℃			-
		TD：-30～120℃			-
		TD：-30～35℃			-
		TD：35～120℃			-
Flammability	UL94	-	-		V-2(0.4mmt)
	UL94				V-2(2.0mmt)
	UL94				HB(3.0mmt)
	UL94				
Electrical properties					
Relative permittivity	ISO62562	2.45 GHz	-		2.67
Dissipation factor	ISO62562	2.45 GHz	-		0.0045
Volume resistivity	IEC 60093	-	Ω・m		-
Surface resistivity	IEC 60093	-	Ω		-
Electric strength	IEC 60243−1	1mmt	M V/m		-
		2mmt			-
		3mmt			-
Comparative tracking index (CTI)	UL746A	-	-		-
RTI(Elec)	UL746B	-	-		80
RTI(Imp)	UL746B	-	-		80
RTI(Str)	UL746B	-	-		80

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