Typical property table

Polycarbonate resin TARFLON™

A2200

Formosa Idemitsu Petrochemical Corporation (FIPC)

Basic PC with natural color for injection molding or compounding.

Property	Method	Units	A2200
ISO identification mark	-	-	>PC<
Physical			
MFR	ISO 1133	g/10min	11
Density	ISO 1183	g/cm^3	1.2
Water absorption (50%RH 24hr)	ISO 62	%	0.23
Mechanical			
Tensile stress at Yield	ISO 527-1,2	MPa	65
Tensile strain at break	ISO 527-1,2	%	95
Flexural strength	ISO 178	MPa	90
Flexural modulus	ISO 178	GPa	2.3
Charpy impact strength (Notched)	ISO 179-1	kJ/m^2	80
Rockwell hardness	ISO 2039-2	R/M scale	R120/M50
Thermal			
Heat deflection temperature (1.8 MPa)	ISO 75-1,2	°C	125
Linear thermal expansion coefficient	ISO 11359-2	$\times 10^{-5}$/°C	6.5
Mold shrinkage	ASTM D955	%	0.5 ~ 0.7
Optical			
Total luminous transmittance	ISO 13468-1	%	85 ~ 90
Electrical			
Dielectric strength	IEC 60243-1	kV/mm	30
Volume resistivity	ASTM D257	Ω·cm	$> 10^{16}$
Dielectric Constant (1 MHz)	IEC 60250	-	2.85
Dielectric dissipation factor (1 MHz)	IEC 60250	-	0.0092
UL rating			
Flammability	UL94	(Class)	V-2 (0.36 ~ 2.9 mm) HB (3.0 ~ 6.0 mm)
CTI	UL746A	(PLC level)	2
RTI (Elec)	UL746B	°C	130
RTI (Imp)	UL746B	°C	125
RTI (Str)	UL746B	°C	130
UV, water exposure or immersion	UL746C	-	f2
Standard molding parameters			
Pre-drying condition	-	-	120 °C, 5~8hours
Cylinder temperature	-	-	260 ~ 300 °C (Max.320 °C)
Mold teperature	-	-	80 ~ 120 °C

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