

TARFLON #1700

PC

Formosa Idemitsu Petrochemical

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	27	g/10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
ASTM Data			
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mechanical properties			
ISO Data	Value	Unit	Test Standard
Tensile Modulus	2000	MPa	ISO 527
Yield stress	65	MPa	ISO 527
Stress at break	65	MPa	ISO 527
Strain at break	95	%	ISO 527
Flexural modulus, 23°C	2300	MPa	ISO 178
Charpy impact strength, +23°C	40	kJ/m ²	ISO 179/1eU
Rockwell hardness	R 120	-	ISO 2039-2
Thermal properties			
ISO Data	Value	Unit	Test Standard
Temp. of deflection under load, 1.80 MPa	125	°C	ISO 75-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	2.5	mm	-
ASTM Data			
UL 94 Flame rating	V-2	-	UL 94
Thickness tested	0.36	mm	-
Coefficient of Thermal Expansion, MD	65	E-6/K	ASTM D 696
Electrical properties			
ISO Data	Value	Unit	Test Standard
Relative permittivity, 100Hz	2.91	-	IEC 62631-2-1
Dissipation factor, 100Hz	6.6	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	92	E-4	IEC 62631-2-1
Volume resistivity	1E14	Ohm*m	IEC 62631-3-1
Electric strength	30	kV/mm	IEC 60243-1
ASTM Data			
Arc Resistance	110	s	ASTM D 495
Optical properties			
ASTM Data	Value	Unit	Test Standard
Light Transmittance	87	%	ASTM D 1003
Index of Refraction	1.58	-	ASTM D 542
Other properties			
Value	Unit	Test Standard	
Water absorption	0.23	%	Sim. to ISO 62
Density	1200	kg/m ³	ISO 1183
Density	1200	kg/m ³	ASTM D 792

Characteristics**Special Characteristics**

High impact or impact modified, Transparent

Regional Availability

Asia Pacific

Applications

Electrical and Electronical, Medical, Packaging