

TARFLON™ #1700

Polycarbonate

Formosa Idemitsu Petrochemical Corporation

Message:

TARFLON™ #1700 is a Polycarbonate (PC) product. It is available in Asia Pacific. Applications of TARFLON™ #1700 include bottles, containers, electrical/electronic applications, kitchenware and medical/healthcare.

Characteristics include:

Flame Rated

Clarity

Good Dimensional Stability

Impact Resistant

Low Viscosity

General Information			
UL YellowCard	E238753-230504		
Features	Good Dimensional Stability		
	Good Electrical Properties		
	High Clarity		
	High Impact Resistance		
	Low Viscosity		
Uses	Bottles		
	Containers		
	Electrical Parts		
	Kitchenware		
	Medical/Healthcare Applications		
UL File Number	238753		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	27	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Water Absorption (Saturation, 23°C)	0.23	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ISO 2039-2
M-Scale	50		
R-Scale	120		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	65.0	MPa	

Break	65.0	MPa	
Tensile Strain (Break)	95	%	ISO 527-2
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact Strength (23°C)	40	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	125	°C	ISO 75-2/A
CLTE - Flow	6.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093
Electric Strength (1.60 mm)	30	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
100 Hz	2.91		
1 MHz	2.85		
Dissipation Factor			IEC 60250
100 Hz	6.6E-4		
1 MHz	9.2E-3		
Arc Resistance	110	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
2.50 mm	HB		
3.00 mm	HB		
6.00 mm	HB		
0.360 mm	V-2		
2.40 mm	V-2		
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.585		ASTM D542
Transmittance	85.0 to 89.0	%	ASTM D1003

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