

TARFLON™ #1900

Polycarbonate
Idemitsu Kosan Co., Ltd.

Message:

TARFLON™#1900 is a polycarbonate (PC) product. It is available in the Asia-Pacific region. TARFLON™#1900 applications include kitchen utensils, electrical/electronic applications, bottles, containers and medical/health care.

Features include:

- flame retardant/rated flame
- low viscosity
- Good dimensional stability
- Impact resistance
- Transparency

General Information			
UL YellowCard	E238753-230501		
Features	Good dimensional stability		
	Low viscosity		
	Impact resistance, high		
	Good electrical performance		
	Definition, high		
Uses	Kitchen utensils		
	Electrical components		
	Bottle		
	Container		
	Medical/nursing supplies		
UL File Number	238753		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	19	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.50 - 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		ISO 2039-2
R scale	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	65.0	MPa	ISO 527-2

Fracture	65.0	MPa	ISO 527-2
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)	70	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
Dielectric Strength (1.00 mm)	30	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
100 Hz	2.91		IEC 60250
1 MHz	2.85		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	6.6E-4		IEC 60250
1 MHz	9.2E-3		IEC 60250
Arc Resistance	110	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.90 mm	HB		UL 94
3.00 mm	HB		UL 94
6.00 mm	HB		UL 94
0.360 mm	V-2		UL 94
1.80 mm	V-2		UL 94
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.585		ASTM D542
Transmittance	85.0 - 89.0	%	ASTM D1003

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