

TARFLON™ #1700

Polycarbonate

Formosa Idemitsu Petrochemical Corporation

Message:

- Grades
- Standard: A1700
- Superior mold-release: R1700
- Superior mold-release, Ice color: IR1700
- Weather resistance, Superior mold-release: V1700R

General Information			
UL YellowCard	E48268-101331156		
Features	High liquidity		
	Good weather resistance		
	General		
Uses	General		
UL File Number	E48268		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	27.0	cm ³ /10min	ISO 1133
Spiral Flow	25.0	cm	Internal method
Molding Shrinkage			Internal method
Vertical flow direction: 2.00mm	0.50 - 0.70	%	Internal method
Flow direction: 2.00mm	0.50 - 0.70	%	Internal method
Water Absorption ¹ (Equilibrium, 23°C, 50% RH)	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 Stress (Yield)	65.0	MPa	ISO 527-2
Nominal Tensile Strain at Break	95	%	ISO 527-2
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	40	kJ/m ²	ISO 179
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	ISO 11359-2
RTI Elec (0.360 mm)	130	°C	UL 746
RTI Imp (0.360 mm)	125	°C	UL 746
RTI (0.360 mm)	130	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	30	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	2.85		IEC 60250
Dissipation Factor (1 MHz)	9.2E-3		IEC 60250
Arc Resistance	PLC 6		ASTM D495
Comparative Tracking Index (CTI)	PLC 2		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.400 to mm)	V-2		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance	85.0 - 89.0	%	ISO 13468-1
Additional Information	Nominal Value		
ISO Shortname	>PC		
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	5.0 - 8.0	hr	
Rear Temperature	260 - 300	°C	
Middle Temperature	260 - 300	°C	
Front Temperature	260 - 300	°C	
Mold Temperature	80.0 - 120	°C	
NOTE			
1.	24h		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT