

TARFLON™ IRE1901

Polycarbonate
Idemitsu Kosan Co., Ltd.

Message:
Transparency, Flame-retardant V-2

General Information			
UL File Number	E48268		
Appearance	Clear/Transparent		
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)	19.0	cm ³ /10min	ISO 1133
Spiral Flow	22.0	cm	Internal Method
Molding Shrinkage	Internal Method		
Across Flow : 2.00 mm	0.50 to 0.70	%	
Flow : 2.00 mm	0.50 to 0.70	%	
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		
R-Scale	120		
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)	70	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	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI Str	80.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms · cm	ASTM D257
Electric Strength	30	kV/mm	IEC 60243-1

Dielectric Constant (1 MHz)	2.85		IEC 60250
Dissipation Factor (1 MHz)	9.2E-3		IEC 60250
Comparative Tracking Index (CTI)	PLC 2		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.400 to 3.00 mm)	V-2		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance	85.0 to 89.0	%	ISO 13468-1
Additional Information	Nominal Value		
ISO Shortname	>PC<		
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	5.0 to 8.0	hr	
Rear Temperature	260 to 300	°C	
Middle Temperature	260 to 300	°C	
Front Temperature	260 to 300	°C	
Mold Temperature	80.0 to 120	°C	
NOTE			
1.	24h		

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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

