TARFLON™ RE1900

Polycarbonate

Idemitsu Kosan Co., Ltd.

Message:

Transparency, Flame-retardant V-2

General Information			
UL YellowCard	E48268-240361		
Features	Flame retardancy		
UL File Number	E48268		
Appearance	Clear/transparent		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.20	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	19.0	cm³/10min	ISO 1133
Spiral Flow	22.0	cm	Internal method
Molding Shrinkage			Internal method
Transverse flow: 2.00mm	0.50 - 0.70	%	Internal method
Flow: 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)	70	kJ/m²	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	130	°C	UL 746
RTI Imp	125	°C	UL 746
RTI	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
Comparative Tracking Index (CTI)	PLC 2		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.4 to 6.0mm)	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 - 120	°C	
NOTE			
1.	24h		

Recommended distributors for this material

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