

TARFLON™ LC1700

Polycarbonate
Idemitsu Kosan Co., Ltd.

Message:
Light guiding, High strength

General Information			
UL YellowCard	E48268-240460	E238753-102159551	
Features	High Strength		
Uses	LCD Applications		
	LEDs		
UL File Number	E48268		
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)	40.0	cm³/10min	ISO 1133
Molding Shrinkage - Flow (2.00 mm)	0.50 to 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		
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)	40	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	128	°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
Flammability	Nominal Value		Test Method
Flame Rating (0.400 mm, NC)	V-2		UL 94

Optical	Nominal Value	Unit	Test Method
Transmittance	90.0	%	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	280 to 320	°C	
Middle Temperature	280 to 320	°C	
Front Temperature	280 to 320	°C	
Mold Temperature	80.0 to 120	°C	
NOTE			
1.	24h		

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