

TARFLON™ LC1402

Polycarbonate
Idemitsu Kosan Co., Ltd.

Message:
Light guiding, High flow, Good color tone

General Information			
UL YellowCard	E48268-102110436		
Features	High liquidity		
Uses	LCD application		
	LEDs		
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)	125	cm ³ /10min	ISO 1133
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 (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	15	%	ISO 527-2
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	130	°C	ISO 75-2/B
1.8 MPa, not annealed	120	°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	80.0	°C	UL 746
Flammability	Nominal Value		Test Method

Flame Rating (0.40 mm, NC)	V-2	UL 94	
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.585		ASTM D542
Transmittance	90.0	%	ISO 13468-1
Haze (3000 μm)	0.50	%	ASTM D1003
Yellowness Index ²	0.95	YI	
Additional Information	Nominal Value		
ISO Shortname	>PC		
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	5.0 - 8.0	hr	
Rear Temperature	280 - 350	°C	
Middle Temperature	280 - 350	°C	
Front Temperature	280 - 350	°C	
Mold Temperature	80 - 110	°C	
NOTE			
1.	24h		
2.	D65 type, 10°		

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