

TARFLON™ SC-810K

Polycarbonate + PE
Idemitsu Kosan Co., Ltd.

Message:
Chemical resistance, Flame-retardant V-0

General Information			
Features	Flame Retardant		
	Good Chemical Resistance		
UL File Number	E48268		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/2.16 kg)	11.0	cm ³ /10min	ISO 1133
Spiral Flow	30.0	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)	0.10	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ISO 2039-2
M-Scale	40		
R-Scale	110		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	50.0	MPa	ISO 527-2
Nominal Tensile Strain at Break	17	%	ISO 527-2
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	97.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	85.0	°C	ISO 75-2/A
CLTE - Flow	8.0E-5	cm/cm/°C	ISO 11359-2
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI Str	50.0	°C	UL 746

Flammability	Nominal Value	Test Method
Flame Rating		UL 94
1.50 mm	V-0	
2.00 mm	5VB	
Additional Information	Nominal Value	
ISO Shortname	>PC+PE-FR(40)<	
Injection	Nominal Value	Unit
Drying Temperature	80.0	°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	40.0 to 60.0	°C
NOTE		
1.	24h	

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