

TARFLON™ SC-428

Polycarbonate + PET

Idemitsu Kosan Co., Ltd.

Message:

Chemical resistance, High strength, High Stiffness

General Information			
Filler / Reinforcement	Filler,5.0% Filler by Weight		
Features	Good Chemical Resistance High Stiffness High Strength		
UL File Number	E48268		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/2.16 kg)	4.80	cm ³ /10min	ISO 1133
Spiral Flow	27.0	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)	0.12	%	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)	58.0	MPa	ISO 527-2
Nominal Tensile Strain at Break	110	%	ISO 527-2
Flexural Modulus	2600	MPa	ISO 178
Flexural Stress	87.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	63	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	134	°C	ISO 75-2/B
1.8 MPa, Unannealed	114	°C	ISO 75-2/A
CLTE - Flow	7.0E-5	cm/cm/°C	ISO 11359-2
Additional Information	Nominal Value		

ISO Shortname	>PC+PET-TD5<	
Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	5.0 to 8.0	hr
Rear Temperature	260 to 280	°C
Middle Temperature	260 to 280	°C
Front Temperature	260 to 280	°C
Mold Temperature	60.0 to 80.0	°C
NOTE		

1. 24h

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