

Susteel® P-42-11

Polyphenylene Sulfide
TOSOH Corporation

Message:
This grade is specialized in capacitor cap.

General Information			
Uses	Caps		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.91	g/cm ³	ASTM D792
Molding Shrinkage			Internal Method
Flow	0.40	%	
Across Flow	0.70	%	
Water Absorption (Equilibrium)	< 0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	123		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	98.0	MPa	ASTM D638
Tensile Elongation (Break)	0.70	%	ASTM D638
Flexural Modulus	12800	MPa	ASTM D790
Flexural Strength	172	MPa	ASTM D790
Tensile Weld Strength	54.0	MPa	ASTM D638
Bar Flow Length (1.00 mm)	8.00	cm	Internal Method
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	39	J/m	ASTM D256
Unnotched Izod Impact	180	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	> 260	°C	ASTM D648
Melting Temperature	285	°C	Internal Method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+18	ohms · cm	ASTM D257
Dielectric Strength	14	kV/mm	ASTM D149
Comparative Tracking Index	175	V	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Injection	Nominal Value	Unit	

Drying Temperature	120 to 150	°C
Drying Time	2.0 to 5.0	hr
Rear Temperature	270 to 300	°C
Middle Temperature	270 to 300	°C
Nozzle Temperature	290 to 330	°C
Mold Temperature	135 to 150	°C
Injection Pressure	50.0 to 150	MPa
Injection Rate	Moderate-Fast	
Back Pressure	1.00 to 20.0	MPa
Screw Speed	100 to 150	rpm

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