

Synres-Almoco SI 4552

Silicone

Synres-Almoco BV

Message:

Glass-fibre reinforced silicone compound
Excellent thermal stability - continual use temperatures of up to 300°C, exceptional electrical properties, good mechanical strength, very good dimensional stability
Primary application(s): Very high heat resistant connectors
This product meets the allowed upper limits for PCAs and also conforms to the requirements of the EU directive 2006/122 (PFOS)

General Information	
Filler / Reinforcement	Glass Fiber
Features	Good Dimensional Stability
	Good Electrical Properties
	Good Strength
	Good Thermal Stability
	High Heat Resistance
Uses	Connectors
Agency Ratings	EU 2006/122/EC
Forms	Granules
Processing Method	Compression Molding
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.90 to 2.00	g/cm ³	ISO 1183
Apparent Density	0.95 to 1.05	g/cm ³	ISO 60
Molding Shrinkage - Flow ¹	0.20 to 0.60	%	ISO 2577
Water Absorption (23°C, 24 hr)	< 0.10	%	ISO 62
Post Shrinkage ²	< 0.050	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2
Compression Molded	12000 to 14000	MPa	
Injection Molded	5000 to 6000	MPa	
Tensile Stress			ISO 527-2
Compression Molded	30.0 to 40.0	MPa	
Injection Molded	30.0 to 40.0	MPa	
Flexural Modulus			ISO 178
Compression Molded	8000 to 11000	MPa	
Injection Molded	8000 to 10000	MPa	
Flexural Stress			ISO 178

Compression Molded	60.0 to 70.0	MPa	
Injection Molded	60.0 to 80.0	MPa	
Compressive Stress	70.0 to 90.0	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
Compression Molded	2.0 to 3.0	kJ/m ²	
Injection Molded	1.5 to 2.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
Compression Molded	4.0 to 6.0	kJ/m ²	
Injection Molded	4.0 to 6.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, Unannealed	> 200	°C	ISO 75-2/A
8.0 MPa, Unannealed	> 200	°C	ISO 75-2/C
CLTE - Flow (50 to 150°C)	2.0E-5 to 4.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.40 to 0.60	W/m/K	ASTM E1461
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14 to 1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+15 to 1.0E+16	ohms·cm	IEC 60093
Electric Strength	20 to 30	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
	6.00		
100 Hz	4.00		
	6.00		
1 MHz	4.00		
Dissipation Factor			IEC 60250
100 Hz	0.010 to 0.020		
1 MHz	0.020 to 0.040		
Arc Resistance	PLC 4		ASTM D495
Comparative Tracking Index	> 300	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.600 mm, Tested by RASCHIG)	V-0		UL 94
NOTE			
1.	Compression Molded		
2.	168 h / 110°C		

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