

DECAL® 666/8

Phenolic

Synres-Almoco BV

Message:

Glass-fibre reinforced phenolic moulding compound with mineral fillers

High heat resistance, reduced mould shrinkage and post-shrinkage, good chemical resistance and mechanical properties

Primary application(s): Commutators

This product meets the allowed upper limits for heavy metals and PCAs and also conforms to the requirements of the EU directives 2002/95 (RoHS), 2002/96 (WEEE) and 2006/122 (PFOS)

General Information			
Filler / Reinforcement	Glass\Mineral		
Features	Good Chemical Resistance		
	High Heat Resistance		
Uses	Electrical Parts		
Agency Ratings	EU 2002/96/EC (WEEE)		
	EU 2006/122/EC		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Granules		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.65 to 1.85	g/cm ³	ISO 1183
Apparent Density	0.70 to 0.90	g/cm ³	ISO 60
Molding Shrinkage - Flow ¹	0.30 to 0.50	%	ISO 2577
Water Absorption (23°C, 24 hr)	< 0.20	%	ISO 62
Post Shrinkage ²	< 0.20	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	6000 to 8000	MPa	ISO 527-2
Tensile Stress (Compression Molded)	50.0 to 70.0	MPa	ISO 527-2
Flexural Modulus (Compression Molded)	10000 to 13000	MPa	ISO 178
Flexural Stress (Compression Molded)	100 to 130	MPa	ISO 178
Compressive Stress	200 to 250	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (Compression Molded)	2.0 to 4.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (Compression Molded)	6.0 to 9.0	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

1.8 MPa, Unannealed	> 200	°C	ISO 75-2/A
8.0 MPa, Unannealed	> 180	°C	ISO 75-2/C
CLTE - Flow (50 to 150°C)	2.0E-5 to 2.5E-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+10 to 1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+12 to 1.0E+13	ohms·cm	IEC 60093
Electric Strength	25 to 35	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
	8.00		
100 Hz	6.00		
	6.00		
1 MHz	4.00		
Dissipation Factor			IEC 60250
100 Hz	0.010 to 0.020		
1 MHz	0.020 to 0.030		
Arc Resistance	PLC 4		ASTM D495
Comparative Tracking Index	> 225	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, Tested by Synres-Almoco)	V-0		UL 94
Glow Wire Flammability Index	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	960	°C	IEC 60695-2-13
NOTE			
1.	Compression Molded		
2.	168 h / 110°C		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT