

DECAL® 1760

Phenolic

Synres-Almoco BV

Message:

Glass-fibre reinforced phenolic moulding compound

Very good electrical properties, good chemical resistance and mechanical properties

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 Fiber		
Features	Good Chemical Resistance		
	Good Electrical Properties		
Agency Ratings	EU 2002/96/EC (WEEE)		
	EU 2006/122/EC		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Granules		
Processing Method	Compression Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.60 to 1.75	g/cm ³	ISO 1183
Apparent Density	0.60 to 0.80	g/cm ³	ISO 60
Molding Shrinkage - Flow ¹	0.60 to 0.80	%	ISO 2577
Water Absorption (23°C, 24 hr)	< 0.50	%	ISO 62
Post Shrinkage ²	0.10 to 0.20	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	5000 to 7000	MPa	ISO 527-2
Tensile Stress (Injection Molded)	50.0 to 70.0	MPa	ISO 527-2
Flexural Modulus (Injection Molded)	7000 to 9000	MPa	ISO 178
Flexural Stress (Injection Molded)	100 to 120	MPa	ISO 178
Compressive Stress	150 to 200	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (Injection Molded)	2.0 to 4.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (Injection 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	160 to 180	°C	ISO 75-2/C
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	20 to 30	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
	12.0		
100 Hz	10.0		
	6.00		
1 MHz	4.00		
Dissipation Factor			IEC 60250
100 Hz	0.60 to 0.80		
1 MHz	0.040 to 0.060		
Arc Resistance	PLC 5		ASTM D495
Comparative Tracking Index	> 275	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.	Injection Molded		
2.	168 h / 110°C		

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