DECAL® 2061

Phenolic

Synres-Almoco BV

Message:

Wood flour reinforced phenolic moulding compound
Good electrical properties, 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	Wood Flour
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	Injection Molding Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Density	1.30 to 1.40	g/cm³	ISO 1183
Apparent Density	0.50 to 0.70	g/cm³	ISO 60
Molding Shrinkage - Flow [1]	0.90 to 1.1	%	ISO 2577
Water Absorption (23°C, 24 hr)	< 1.2	%	ISO 62
Post Shrinkage [2]	0.50 to 0.70	%	ISO 2577
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Injection Molded)	4000 to 6000	MPa	ISO 527-2
Tensile Stress (Injection Molded)	50.0 to 70.0	MPa	ISO 527-2
Flexural Modulus (Injection Molded)	6000 to 8000	MPa	ISO 178
Flexural Stress (Injection Molded)	90.0 to 110	MPa	ISO 178
Compressive Stress	200 to 250	MPa	ISO 604
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (Injection Molded)	2.0 to 4.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (Injection Molded)	6.0 to 9.0	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			

1.8 MPa, Unannealed	160 to 180	°C	ISO 75-2/A
8.0 MPa, Unannealed	100 to 120	°C	ISO 75-2/C
CLTE - Flow (50 to 150°C)	3.5E-5 to 4.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.20 to 0.40	W/m/K	ASTM E1461
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+13 to 1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+16 to 1.0E+17	ohms·cm	IEC 60093
Electric Strength	20 to 30	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
	16.0		
100 Hz	12.0		
	6.00		
1 MHz	4.00		
Dissipation Factor			IEC 60250
100 Hz	0.60 to 0.80		
1 MHz	0.060 to 0.080		
Arc Resistance	PLC 6		ASTM D495
Comparative Tracking Index	> 150	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (3.00 mm, Tested by Synres-Almoco)	V-0		UL 94
Glow Wire Flammability Index	900	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	900	°C	IEC 60695-2-13
NOTE			
1.	Injection Molded		
2.	168 h / 110°C		

Recommended distributors for this material

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