Durez® 22257 (Compression)

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

Durez 22257 Black Phenolic is a two-stage, medium impact molding material. It is designed for appliance and electrical applications where additional mechanical strength is required. Typical applications include circuit breakers, small motor bases and housings, appliance panels, terminal blocks, barrier strips, etc.

General Information					
Features	Medium impact resistance				
Uses	Electrical/Electronic Applications				
	Home appliance components				
	Shell				
Appearance	Black				
Forms	Particles				
Processing Method	Resin transfer molding				
	Compression molding				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.40	g/cm³	ASTM D792		
Apparent Density	0.57	g/cm³	ASTM D1895		
Molding Shrinkage - Flow	0.70	%	ASTM D6289		
Water Absorption	0.60	%	ASTM D570		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	7600	MPa	ASTM D638		
Tensile Strength	52.0	MPa	ASTM D638		
Flexural Strength	69.0	MPa	ASTM D790		
Compressive Strength	189	MPa	ASTM D695		
Impact	Nominal Value	Unit	Test Method		
Notched Izod Impact	25	J/m	ASTM D256		
Thermal	Nominal Value	Unit	Test Method		
Deflection Temperature Under Load (1.8					
MPa, Unannealed)	171	°C	ASTM D648		
CLTE - Flow (23 to 60°C)	4.2E-5	cm/cm/°C	ASTM E831		
Specific Heat	1420	J/kg/°C	ASTM C351		
Thermal Conductivity	0.40	W/m/K	ASTM C177		
RTI Elec (3.00 mm)	150	°C	UL 746		
Electrical	Nominal Value	Unit	Test Method		
Volume Resistivity	1.0E+12	ohms·cm	ASTM D257		
Dielectric Strength			ASTM D149		

1	15	kV/mm	ASTM D149	
²	13	kV/mm	ASTM D149	
Dielectric Constant (1 MHz)	4.50		ASTM D2520	
Dissipation Factor (1 MHz)	0.040		ASTM D150	
Flammability	Nominal Value	Unit	Test Method	
Flame Rating			UL 94	
1.50 mm	НВ		UL 94	
3.00 mm	НВ		UL 94	
6.00 mm	V-0		UL 94	
Thermoset	Nominal Value	Unit		
Shelf Life	52	wk		
Additional Information				
Test Specimens Molded at 340-350 A/E-5272.	0°FTypical transfer-molded shrinkage is	0.009 in/inDurez 22257 is fungus i	resistant per Mil-I-631D and Mil-810	
NOTE				
1.	Method A (short time)	Method A (short time)		
2.	Method B (step by step)			

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

