Durez® 22257 (Injection)

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 resistan	Medium impact resistance				
Uses	Electrical/Electronic Applications					
	Home appliance components					
	Shell					
Appearance	Black	Black				
Forms	Particles					
Processing Method	Resin transfer molding					
	Injection 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	1.1	%	ASTM D6289			
Water Absorption	0.60	%	ASTM D570			
Mechanical	Nominal Value	Unit	Test Method			
Tensile Modulus	7700	MPa	ASTM D638			
Tensile Strength	55.0	MPa	ASTM D638			
Flexural Strength	69.0	MPa	ASTM D790			
Compressive Strength	193	MPa	ASTM D695			
Impact	Nominal Value	Unit	Test Method			
Notched Izod Impact	24	J/m	ASTM D256			
Thermal	Nominal Value	Unit	Test Method			
Deflection Temperature Under Load (1.8						
MPa, Unannealed)	149	°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	8.9	kV/mm	ASTM D149
2	7.9	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.50		ASTM D2520
Dissipation Factor (1 MHz)	0.080		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°FTypical transfer-molded shrinkage is 0.009 in/inDurez 22257 is fungus resistant per Mil-I-631D and Mil-810 A/E-5272.

NOTE		
1.	Method A (short time)	
2.	Method B (step by step)	

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