

DIAMALLOY ABSPC 754M

Polycarbonate + ABS
Network Polymers, Inc.

Message:

Diamaloy ABSPC 754M- Medical Grade resin is a non-reinforced, flame retardant, antimony-, bromine-, and chlorine free. Diamaloy ABSPC 754M is naturally opaque and is available in custom colors. High heat and impact resistance.

General Information			
UL YellowCard	E51193-101898751		
Additive	Flame Retardant		
Features	Amorphous		
	Bromine Free		
	Chlorine Free		
	High Heat Resistance		
	High Impact Resistance		
Uses	Medical Device Housings		
	Medical/Healthcare Applications		
Agency Ratings	EU 2002/96/EC (WEEE)		
	ISO 10993 Part 5 3		
	UL 94 4		
RoHS Compliance	RoHS Compliant		
UL File Number	E150937		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (265°C/5.0 kg)	30	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.40 to 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ² (Injection Molded)	2410	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield ³	55.8	MPa	
Break	52.1	MPa	
Tensile Elongation			ASTM D638
Yield ⁴	5.1	%	
Break	140	%	
Flexural Modulus ⁵	2280	MPa	ASTM D790A

Flexural Strength ⁶ (Yield, Injection Molded)	82.7	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	750	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	96.1	°C	ASTM D648
Vicat Softening Temperature	122	°C	ASTM D1525 ⁷
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	93.3	°C	
Drying Time - Desiccant Dryer	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	221 to 232	°C	
Middle Temperature	227 to 235	°C	
Front Temperature	249 to 260	°C	
Nozzle Temperature	249 to 263	°C	
Mold Temperature	65.6 to 79.4	°C	
NOTE			
1.	Procedure A		
2.	Type I		
3.	Type I, 51 mm/min		
4.	Type I, 51 mm/min		
5.	Method I (3 point load), 1.3 mm/min		
6.	Method I (3 point load)		
7.	Rate B (120°C/h), Loading 1 (10 N)		

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