

DIAMALLOY ABSPC 7000M

Polycarbonate + ABS
Network Polymers, Inc.

Message:

Diamaloy ABSPC 7000M resin is a non-reinforced, naturally opaque and is available in custom colors. High heat and impact resistance. USP Class VI Medical Grade.

General Information			
UL YellowCard	E51193-101898816		
Features	High Heat Resistance		
	High Impact Resistance		
Uses	Medical/Healthcare Applications		
Agency Ratings	USP Class VI		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792A
Melt Mass-Flow Rate (MFR) ¹ (265°C/5.0 kg)	23	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)	2280	MPa	ASTM D638
Tensile Strength ³ (Yield)	51.7	MPa	ASTM D638
Flexural Modulus ⁴	2280	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	530	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	110	°C	ASTM D648
Vicat Softening Temperature	145	°C	ASTM D1525 ⁵
Flammability	Nominal Value	Test Method	
Flame Rating (1.50 mm)	HB	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.	Method I (3 point load), 1.3 mm/min
5.	Rate B (120°C/h), Loading 1 (10 N)

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