

Technical Data Sheet

Diamaloy Abspc 7000M

Polycarbonate + ABS
LyondellBasell Industries
Engineering Plastics

Product Description

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

Features	<ul style="list-style-type: none"> • High Heat Resistance • High Impact Resistance
Uses	<ul style="list-style-type: none"> • Medical/Healthcare Applications
Agency Ratings	<ul style="list-style-type: none"> • USP Class VI
Forms	<ul style="list-style-type: none"> • Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.17	1.17 g/cm ³	ASTM D792A
Melt Mass-Flow Rate (MFR) ¹ (265°c/5.0 Kg)	23 g/10 min	23 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus ² (Injection Molded)	330000 psi	2280 MPa	ASTM D638
Tensile Strength ³ (Yield)	7500 psi	51.7 MPa	ASTM D638
Flexural Modulus ⁴	330000 psi	2280 MPa	ASTM D790A
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (0.125 In (3.18 Mm))	10 ft·lb/in	530 J/m	ASTM D256A
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 Psi (1.8 Mpa), Unannealed, 0.125 In (3.18 Mm)	230 °F	110 °C	ASTM D648
Vicat Softening Temperature	293 °F	145 °C	ASTM D1525 ⁵
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.06 In (1.5 Mm))	HB	HB	UL 94

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature - Desiccant Dryer	200 °F	93 °C
Drying Time - Desiccant Dryer	4.0 to 6.0 hr	4.0 to 6.0 hr
Suggested Max Moisture	0.02 %	0.02 %
Rear Temperature	430 to 450 °F	221 to 232 °C
Middle Temperature	440 to 455 °F	227 to 235 °C
Front Temperature	480 to 500 °F	249 to 260 °C
Nozzle Temperature	480 to 505 °F	249 to 263 °C
Mold Temperature	150 to 175 °F	66 to 79 °C

Notes

- ¹ Procedure A
- ² Type I
- ³ Type I, 2.0 in/min (51 mm/min)
- ⁴ Method I (3 point load), 0.050 in/min (1.3 mm/min)
- ⁵ Rate B (120°C/h), Loading 1 (10 N)

Notes

These are typical property values not to be construed as specification limits.