Technical Data Sheet

LyondellBasell

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		
Material Status	• Commercial: Active	
Availability	• North America	
Features	• High Heat Resistance	• High Impact Resistance
Uses	• Medical/Healthcare Applications	
Forms	• Pellets	

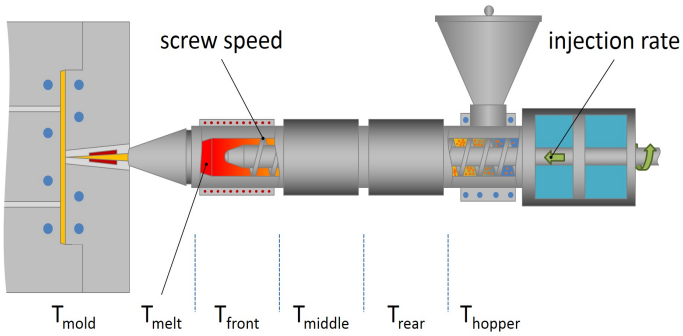
Physical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Density / Specific Gravity	1.17	1.17 g/cm³	ASTM D792A
Melt Mass-Flow Rate (MFR) [1] (265°C/5.0 kg)	23 g/10 min	23 g/10 min	ISO 1133
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus [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			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	230 °F	110 °C	
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

Technical Data Sheet

LyondellBasell

Diamaloy Abspc 7000M

Polycarbonate + ABS
LyondellBasell Industries
Engineering Plastics



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

Technical Data Sheet

LyondellBasell

Diamaloy Abspc 7000M

Polycarbonate + ABS
LyondellBasell Industries
Engineering Plastics

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.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.