Technical Data Sheet

Diamaloy Abspc 9901

Polycarbonate + ABS
LyondellBasell Industries
Engineering Plastics

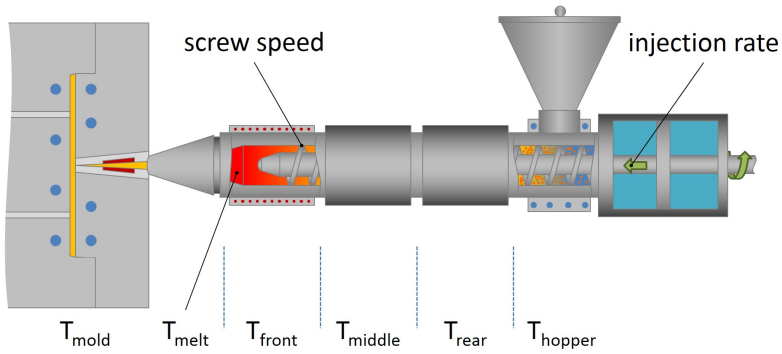
General	
Features	• Ultra High Impact Resistance
UL File Number	• E119088
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.12	1.12 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) [1]			ASTM D1238
200°c/5.0 Kg	0.80 g/10 min	0.80 g/10 min	
230°c/3.8 Kg	3.9 g/10 min	3.9 g/10 min	
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus [2] (Injection Molded)	387000 psi	2670 MPa	ASTM D638
Tensile Strength [3] (Yield)	8000 psi	55.2 MPa	ASTM D638
Flexural Modulus	310000 psi	2140 MPa	ASTM D790
Flexural Strength [4] (Break)	10300 psi	70.7 MPa	ASTM D790A
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256
73°f (23°c), 0.125 In (3.18 Mm)	11 ft·lb/in	590 J/m	
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Rockwell Hardness (R-scale)	112	112	ASTM D785
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)	194 °F	90.0 °C	
264 Psi (1.8 Mpa), Annealed, 0.125 In (3.18 Mm)	212 °F	100 °C	
Vicat Softening Temperature	257 °F	125 °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

Diamaloy Abspc 9901

Polycarbonate + ABS
LyondellBasell Industries
Engineering Plastics



Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	194 to 212 °F	90 to 100 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Max Moisture	0.02 %	0.02 %
Suggested Shot Size	40 to 70 %	40 to 70 %
Rear Temperature	446 to 500 °F	230 to 260 °C
Middle Temperature	455 to 509 °F	235 to 265 °C
Front Temperature	460 to 522 °F	238 to 272 °C
Nozzle Temperature	460 to 522 °F	238 to 272 °C
Processing (Melt) Temp	460 to 522 °F	238 to 272 °C
Mold Temperature	104 to 212 °F	40 to 100 °C
Back Pressure	50.0 to 150 psi	0.345 to 1.03 MPa

Notes

[1] Procedure A
[2] Type I
[3] 2.0 in/min (51 mm/min)
[4] Method I (3 point load), Type I
[5] Loading 1 (10 N)

Notes

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