Technical Data Sheet

Diamaloy Abspc 7901

Polycarbonate + ABS
LyondellBasell Industries
Engineering Plastics

General		
Features	• High Impact Resistance	
Agency Ratings	• EC 1907/2006 (REACH)	• EU 2002/96/EC (WEEE)
RoHS Compliance	• RoHS Compliant	
UL File NumberUsa	• E150937	
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.06	1.06 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) [1] (265°c/5.0 Kg)	8.7 g/10 min	8.7 g/10 min	ASTM D1238
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength [2] (Yield)	5800 psi	40.0 MPa	ASTM D638
Flexural Modulus - Tangent [3]	292000 psi	2010 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256
73°f (23°c), 0.125 In (3.18 Mm)	8.0 ft·lb/in	430 J/m	
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Rockwell Hardness (R-scale)	110	110	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)	174 °F	78.9 °C	
Vicat Softening Temperature	234 °F	112 °C	ASTM D1525 [4]
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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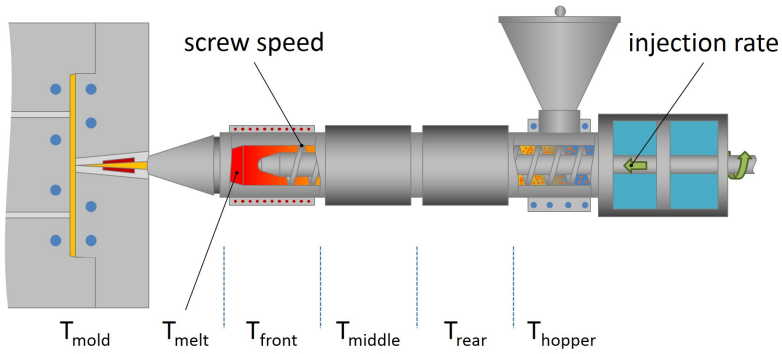

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	194 to 212 °F	90 to 100 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Max Moisture	0.02 %	0.02 %
Suggested Shot Size	40 to 70 %	40 to 70 %
Rear Temperature	446 to 500 °F	230 to 260 °C
Middle Temperature	455 to 509 °F	235 to 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] 2.0 in/min (51 mm/min)
[3] 0.050 in/min (1.3 mm/min)
[4] Loading 1 (10 N)

Notes

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