Technical Data Sheet

Diamaloy Abspc 7801

Polycarbonate + ABS
LyondellBasell Industries
Engineering Plastics

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.11	1.11 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) [1] (265°c/5.0 Kg)	29 g/10 min	29 g/10 min	ASTM D1238
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus [2]	337000 psi	2320 MPa	ASTM D638
Tensile Strength [2] (Yield)	5930 psi	40.9 MPa	ASTM D638
Flexural Modulus - Tangent [3] (0.125 In (3.18 Mm))	293000 psi	2020 MPa	ASTM D790
Flexural Strength [3]			ASTM D790
5.0% Strain, 0.125 In (3.18 Mm)	9570 psi	66.0 MPa	
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256
73°f (23°c), 0.125 In (3.18 Mm)	10 ft·lb/in	550 J/m	
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)	223 °F	106 °C	
264 Psi (1.8 Mpa), Unannealed, 0.250 In (6.35 Mm)	230 °F	110 °C	
Vicat Softening Temperature	279 °F	137 °C	ASTM D1525 [4]

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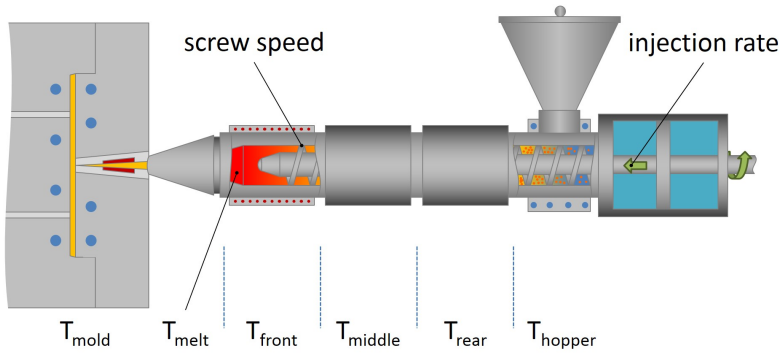

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	194 to 212 °F	90 to 100 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Max Moisture	0.02 %	0.02 %
Suggested Shot Size	40 to 70 %	40 to 70 %
Rear Temperature	446 to 500 °F	230 to 260 °C
Middle Temperature	455 to 509 °F	235 to 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] Type I, 2.0 in/min (51 mm/min)
[3] 0.050 in/min (1.3 mm/min)
[4] Rate B (120°C/h), Loading 1 (10 N)

Notes

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