

Technical Data Sheet



Diamaloy Abspc 750 HF

Polycarbonate + ABS
LyondellBasell Industries
Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Flame Retardant		
Features	• Flame Retardant	• Halogen Free	
UL File Number	• E150937		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.18	1.18 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹			
200°C/5.0 kg	26 g/10 min	26 g/10 min	ASTM D1238
230°C/3.8 kg	27 g/10 min	27 g/10 min	ASTM D1238
230°C/3.8 kg	14 g/10 min	14 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)	14 cm³/10min	14 cm³/10min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	392000 psi	2700 MPa	ISO 527-1/1
Tensile Strength			
Yield ²	8700 psi	60.0 MPa	ASTM D638
Yield	7980 psi	55.0 MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	2.5 %	2.5 %	ASTM D638
Break, Injection Molded ³	> 100 %	> 100 %	ISO 527-2/50
Flexural Modulus			
-- ⁴	385000 psi	2650 MPa	ASTM D790B
-- ⁵	412000 psi	2840 MPa	ISO 178
Flexural Stress ⁵	12900 psi	89.0 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	8.3 ft·lb/in²	17 kJ/m²	ISO 179/1eA
Notched Izod Impact			
0.125 in (3.18 mm)	10 ft·lb/in	530 J/m	ASTM D256A
73°F (23°C)	20 ft·lb/in²	42 kJ/m²	ISO 180
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)	180 °F	82.2 °C	ASTM D648
264 psi (1.8 MPa), Unannealed	163 °F	73.0 °C	ISO 75-2/A
Vicat Softening Temperature	221 °F	105 °C	ASTM D1525 ⁶
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.06 in (1.5 mm)	V-0	V-0	
0.08 in (2.0 mm)	• V-0	• V-0	
	• 5VB	• 5VB	
0.12 in (3.0 mm)	• V-0	• V-0	
	• 5VB	• 5VB	

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Notes

¹ Procedure A

² Type I, 2.0 in/min (51 mm/min)

³ 1.95 in/min

⁴ Method I (3 point load), 0.050 in/min (1.3 mm/min)

⁵ 0.079 in/min (2.0 mm/min)

⁶ 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/>.

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