

**Technical Data Sheet**

# Diamaloy Abspc 750 HF

Polycarbonate + ABS  
LyondellBasell Industries  
Engineering Plastics

General			
Additive	• Flame Retardant		
Features	• Flame Retardant	• Halogen Free	
Agency Ratings	• EU 2002/96/EC (WEEE)		
UL File Number	• E150937		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.18	1.18 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) <sup>1</sup>			
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 cm <sup>3</sup> /10min	14 cm <sup>3</sup> /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 <sup>2</sup>	8700 psi	60.0 MPa	ASTM D638
Yield	7980 psi	55.0 MPa	ISO 527-2/50
Tensile Elongation			
Yield <sup>2</sup>	2.5 %	2.5 %	ASTM D638
Break, Injection Molded <sup>3</sup>	> 100 %	> 100 %	ISO 527-2/50
Flexural Modulus			
-- <sup>4</sup>	385000 psi	2650 MPa	ASTM D790B
-- <sup>5</sup>	412000 psi	2840 MPa	ISO 178
Flexural Stress <sup>5</sup>	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/in <sup>2</sup>	17 kJ/m <sup>2</sup>	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/in <sup>2</sup>	42 kJ/m <sup>2</sup>	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 <sup>6</sup>

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 • 5VB	• V-0 • 5VB	
0.12 In (3.0 Mm)	• V-0 • 5VB	• V-0 • 5VB	

**Notes**

- <sup>1</sup> Procedure A
- <sup>2</sup> Type I, 2.0 in/min (51 mm/min)
- <sup>3</sup> 1.95 in/min
- <sup>4</sup> Method I (3 point load), 0.050 in/min (1.3 mm/min)
- <sup>5</sup> 0.079 in/min (2.0 mm/min)
- <sup>6</sup> Rate B (120°C/h), Loading 1 (10 N)

**Notes**

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