

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 ³	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 cm ³ /10min	14 cm ³ /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/in ²	17 kJ/m ²	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 ²	42 kJ/m ²	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	

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 9 in/min (2.0 mm/min)

⁶ B (120°C/h), Loading 1 (10 N)

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

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