

DIAMALLOY ABSPC 750 HF

Polycarbonate + ABS

Network Polymers, Inc.

Message:

DIAMALLOY ABSPC 750 HF is a Polycarbonate + ABS (PC+ABS) product. It is available in North America.

Characteristics include:

Flame Rated

WEEE Compliant

Flame Retardant

Halogen Free

General Information			
UL YellowCard	E51193-101898750	E51193-101898813	
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
Agency Ratings	EU 2002/96/EC (WEEE)		
UL File Number	E150937		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹			
200°C/5.0 kg	26	g/10 min	ASTM D1238
230°C/3.8 kg	27	g/10 min	ASTM D1238
230°C/3.8 kg	14	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)	14.0	cm³/10min	ISO 1133
Molding Shrinkage - Flow	0.40 to 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	60.0	MPa	ASTM D638
Yield	55.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ³	2.5	%	ASTM D638
Break, Injection Molded ⁴	> 100	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2650	MPa	ASTM D790B
-- ⁶	2840	MPa	ISO 178
Flexural Stress ⁷	89.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	17	kJ/m²	ISO 179/1eA

Notched Izod Impact			
3.18 mm	530	J/m	ASTM D256A
23°C	42	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.18 mm	82.2	°C	ASTM D648
1.8 MPa, Unannealed	73.0	°C	ISO 75-2/A
Vicat Softening Temperature	105	°C	ASTM D1525 ⁸
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	V-0		
	V-0		
2.00 mm	5VB		
	V-0		
3.00 mm	5VB		
NOTE			
1.	Procedure A		
2.	Type I, 51 mm/min		
3.	Type I, 51 mm/min		
4.	1.95 in/min		
5.	Method I (3 point load), 1.3 mm/min		
6.	2.0 mm/min		
7.	2.0 mm/min		
8.	Rate B (120°C/h), Loading 1 (10 N)		

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