

DIAMALLOY ABSPC 750

Polycarbonate + ABS

Network Polymers, Inc.

Message:

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

Characteristics include:

Flame Rated

Flame Retardant

Halogen Free

General Information			
UL YellowCard	E51193-101898813		
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
UL File Number	E150937		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (230°C/3.8 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	61.6	MPa	ASTM D638
Tensile Elongation ³ (Yield)	4.5	%	ASTM D638
Flexural Modulus ⁴	2590	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	640	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	87.8	°C	ASTM D648
Vicat Softening Temperature	113	°C	ASTM D1525 ⁵
Flammability	Nominal Value	Test Method	
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
2.00 mm	5VB		
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	82.2 to 98.9	°C	
Drying Time - Desiccant Dryer	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	204 to 227	°C	

Middle Temperature	204 to 238	°C
Front Temperature	216 to 249	°C
Mold Temperature	48.9 to 71.1	°C
Back Pressure	0.517 to 1.03	MPa

NOTE		
1.	Procedure A	
2.	Type I, 51 mm/min	
3.	Type I, 51 mm/min	
4.	Method I (3 point load), 1.3 mm/min	
5.	Rate B (120°C/h), Loading 1 (10 N)	

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