

POLYLAC® PA-747H

CHI MEI CORPORATION - Acrylonitrile Butadiene Styrene

Sunday, November 3, 2019

General Information					
General					
Material Status	Commercial: Active				
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America		
Uses	 Appliances 				
RoHS Compliance	RoHS Compliant				
Automotive Specifications	ASTM D4673 ABS0120 B43420 Color: Black				
Processing Method	 Extrusion 				
Resin ID (ISO 1043)	• >ABS<				

Nominal Value	Unit	
	Ullit	Test Method
1.05		ASTM D792
1.05	g/cm³	ISO 60
		ASTM D1238
0.23	g/10 min	
2.8	g/10 min	
3.0	g/10 min	ISO 1133
0.40 to 0.70	%	ISO 294-4
Nominal Value	Unit	Test Method
6830	psi	ASTM D638
6670	psi	ISO 527-2/50
5080	psi	ISO 527-2/50
50	%	ASTM D638
25	%	ISO 527-2/50
341000	psi	ASTM D790
261000	psi	ISO 178
9960	psi	ASTM D790
9140	psi	ISO 178
Nominal Value	Unit	Test Method
		ISO 179
11	ft·lb/in²	
17	ft·lb/in²	
		ASTM D256
8.3	ft·lb/in	
5.9	ft·lb/in	
		ISO 180/1A
10	ft·lb/in²	
16	ft·lb/in²	
Nominal Value	Unit	Test Method
	0.23 2.8 3.0 0.40 to 0.70 Nominal Value 6830 6670 5080 50 25 341000 261000 9960 9140 Nominal Value 11 17 8.3 5.9	1.05 g/cm³ 0.23 g/10 min 2.8 g/10 min 3.0 g/10 min 0.40 to 0.70 % Nominal Value Unit 6830 psi 6670 psi 5080 psi 50 % 25 % 341000 psi 261000 psi 9960 psi 9140 psi Nominal Value Unit 11 ft·lb/in² 17 ft·lb/in² 18.3 ft·lb/in 5.9 ft·lb/in 10 ft·lb/in² 11 ft·lb/in² 11 ft·lb/in² 12 ft·lb/in² 13 ft·lb/in



POLYLAC® PA-747H

CHI MEI CORPORATION - Acrylonitrile Butadiene Styrene

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	185	°F	
Heat Deflection Temperature (264 psi, Unannealed)	183	°F	ISO 75-2/A
Deflection Temperature Under Load (264 psi, Annealed)	203	°F	ASTM D648
Heat Deflection Temperature (264 psi, Annealed)	212	°F	ISO 75-2/A
Vicat Softening Temperature	223	°F	ASTM D1525 5
Vicat Softening Temperature			
	223	°F	ISO 306/A50
	214	°F	ISO 306/B50
CLTE - Flow	4.8E-5	in/in/°F	ISO 11359-2
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

Processing Information				
Extrusion	Nominal Value	Unit		
Drying Temperature	176 to 185	°F		
Drying Time	2.0 to 4.0	hr		
Cylinder Zone 1 Temp.	374 to 410	°F		
Cylinder Zone 3 Temp.	410 to 464	°F		
Cylinder Zone 5 Temp.	428 to 482	°F		
Die Temperature	392 to 482	°F		

Notes



¹ Typical properties: these are not to be construed as specifications.

² 0.24 in/min

³ 0.11 in/min

⁴ 0.079 in/min

⁵ Rate A (50°C/h)