

POLYLAC® PA-747S

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					
RoHS Compliance	 RoHS Compliant 							
Processing Method	Extrusion							
Resin ID (ISO 1043)	• >ABS<							

ASTM & ISO Properties ¹						
•	Nominal Value	Unit	Test Method			
3	1.03		ASTM D792			
1	1.04	g/cm³	ISO 1183			
)	0.50	g/10 min	ASTM D1238			
)	2.50	cm ³ /10min	ISO 1133			
)	0.40 to 0.70	%	ISO 294-4			
•	Nominal Value	Unit	Test Method			
)	5530	psi	ASTM D638			
)	5950	psi	ISO 527-2/50			
)	4350	psi	ISO 527-2/50			
)	40	%	ASTM D638			
5	25	%	ISO 527-2/50			
)	300000	psi	ASTM D790			
)	247000	psi	ISO 178			
)	8800	psi	ASTM D790			
)	8850	psi	ISO 178			
•	Nominal Value	Unit	Test Method			
			ISO 179			
3	13	ft·lb/in²				
9	19	ft·lb/in²				
			ASTM D256			
5	7.5	ft·lb/in				
5	6.5	ft·lb/in				
			ISO 180/1A			
2	12	ft·lb/in²				
3	18	ft·lb/in²				
•	Nominal Value	Unit	Test Method			
2	102		ASTM D785			
•	Nominal Value	Unit	Test Method			
			ASTM D648			
5	185	°F				
1	181	°F	ISO 75-2/A			
3	203	°F	ASTM D648			
1	181	°F				



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Thermal	Nominal Value	Unit	Test Method	
Heat Deflection Temperature (264 psi, Annealed)	210	°F	ISO 75-2/A	
Vicat Softening Temperature	217	°F	ASTM D1525 6	
Vicat Softening Temperature				
	223	°F	ISO 306/A50	
	214	°F	ISO 306/B50	
CLTE - Flow	5.1E-5	in/in/°F	ISO 11359-2	
Flammability	Nominal Value	Unit	Test Method	
Flame Rating (0.06 in)	НВ		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 23°C

³ 0.24 in/min

⁴ 0.11 in/min

⁵ 0.079 in/min

⁶ Rate A (50°C/h), Loading 1 (10 N)