

POLYLAC® PA-765B

CHI MEI CORPORATION - Acrylonitrile Butadiene Styrene

Sunday, November 3, 2019

General Information						
General						
Material Status	Commercial: Active					
Availability	Africa & Middle EastAsia Pacific	EuropeLatin America	North America			
Features	 Medium Impact Resistance 	e				
RoHS Compliance	 RoHS Compliant 					
Resin ID (ISO 1043)	>ABS-FR(17)					

ASTM & ISO Properties ¹						
Physical	Nominal Value	Unit	Test Method			
Density / Specific Gravity ²	1.16		ASTM D792			
Density (73°F)	1.16	g/cm³	ISO 1183			
Melt Mass-Flow Rate (200°C/5.0 kg)	4.2	g/10 min	ASTM D1238			
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	38	cm³/10min	ISO 1133			
Molding Shrinkage	0.30 to 0.60	%	ISO 294-4			
Mechanical	Nominal Value	Unit	Test Method			
Tensile Strength ³ (Yield)	5670	psi	ASTM D638			
Tensile Stress (Yield)	5510	psi	ISO 527-2/50			
Tensile Stress (Break)	4210	psi	ISO 527-2/50			
Tensile Elongation ³ (Break)	25	%	ASTM D638			
Tensile Strain (Break)	10	%	ISO 527-2/50			
Flexural Modulus ⁴	340000	psi	ASTM D790			
Flexural Modulus ⁵	261000	psi	ISO 178			
Flexural Strength ⁴	9200	psi	ASTM D790			
Flexural Stress ⁵	8270	psi	ISO 178			
Impact	Nominal Value	Unit	Test Method			
Charpy Notched Impact Strength			ISO 179			
-22°F	5.2	ft·lb/in²				
73°F	12	ft·lb/in²				
Notched Izod Impact			ASTM D256			
73°F, 0.126 in	4.6	ft·lb/in				
73°F, 0.252 in	4.0	ft·lb/in				
Notched Izod Impact Strength			ISO 180/1A			
-22°F	5.2	ft·lb/in²				
73°F	11	ft·lb/in²				
Hardness	Nominal Value	Unit	Test Method			
Rockwell Hardness (R-Scale)	102		ASTM D785			
Thermal	Nominal Value	Unit	Test Method			
Deflection Temperature Under Load			ASTM D648			
264 psi, Unannealed	169	°F				
			ISO 75-2/A			



POLYLAC® PA-765B

CHI MEI CORPORATION - Acrylonitrile Butadiene Styrene

	Nominal Value	Unit	Test Method
	185	°F	ISO 75-2/A
	198	°F	ASTM D1525 6
	201	°F	ISO 306/A50
	176	°F	ISO 306/B50
	4.8E-5	in/in/°F	ISO 11359-2
	Nominal Value	Unit	Test Method
			UL 94
	V-2		
•	V-0		
•	5VB		
	5VA		
	•	185 198 201 176 4.8E-5 Nominal Value V-2 V-0 V-0	V-05VB

Processing Information					
Injection	Nominal Value Unit				
Drying Temperature	176 to 185 °F				
Drying Time	2.0 to 4.0 hr				
Rear Temperature	356 to 410 °F				
Middle Temperature	374 to 428 °F				
Front Temperature	374 to 428 °F				
Mold Temperature	104 to 158 °F				
Injection Rate	Slow-Moderate				
Back Pressure	71.1 to 142 psi				
Injection Notes					

Injection Pressure: 50 to 80% Holding Pressure: 20 to 50%

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)

