

Product Comparison

Technical Data

Product Description					
POLYLAC® PA-707	High gloss, High rigid				
UL Yellow Card POLYLAC PA-707(+), PA-707K(+)	POLYLAC PA-707(+), PA-707K(+) is an Unspecified material. It is available in North America. Primary attribute of POLYLAC PA-707(+), PA-707K(+): Flame Rated.				
UL Yellow Card "POLYLAC" PA-707(+)	"POLYLAC" PA-707(+) is an Unspecified material. It is available in North America. Primary attribute of "POLYLAC" PA-707(+): Flame Rated.				
General	POLYLAC® PA-707	UL Yellow Card POLYLAC PA-707(+), PA-707K(+)	UL Yellow Card "POLYLAC" PA-707(+)		
Manufacturer / Supplier	• CHI MEI CORPORATION	• Underwriters Laboratories Inc.	• Underwriters Laboratories Inc.		
Generic Symbol	• ABS	• Unspecified	• Unspecified		
Material Status	• Commercial: Active	• Commercial: Active	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)	--	--		
UL Yellow Card ²	• E56070-245704 • E194560-104028969	--	--		
Search for UL Yellow Card	• CHI MEI CORPORATION • POLYLAC®	--	--		
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America	• North America	• North America		
Features	• High Gloss • High Rigidity	--	--		
RoHS Compliance	• RoHS Compliant	--	--		
Resin ID (ISO 1043)	• >ABS<	--	--		
Physical	POLYLAC® PA-707	UL Yellow Card POLYLAC PA-707(+), PA-707K(+)	UL Yellow Card "POLYLAC" PA-707(+)	Unit	Test Method
Density (23°C)	1.06	--	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	20	--	--	cm ³ /10min	ISO 1133
Molding Shrinkage	0.40 to 0.70	--	--	%	ISO 294-4



Mechanical	POLYLAC® PA-707	UL Yellow Card POLYLAC PA-707(+), PA-707K(+)	UL Yellow Card "POLYLAC" PA-707(+)	Unit	Test Method
Tensile Stress					ISO 527-2/50
Yield	50.0	--	--	MPa	
Break	36.0	--	--	MPa	
Tensile Strain (Break)	60	--	--	%	ISO 527-2/50
Flexural Modulus ⁴	2300	--	--	MPa	ISO 178
Flexural Stress ⁴	79.0	--	--	MPa	ISO 178
Impact	POLYLAC® PA-707	UL Yellow Card POLYLAC PA-707(+), PA-707K(+)	UL Yellow Card "POLYLAC" PA-707(+)	Unit	Test Method
Charpy Notched Impact Strength					ISO 179
-30°C	8.0	--	--	kJ/m ²	
23°C	14	--	--	kJ/m ²	
Notched Izod Impact Strength					ISO 180/1A
-30°C	7.0	--	--	kJ/m ²	
23°C	13	--	--	kJ/m ²	
Thermal	POLYLAC® PA-707	UL Yellow Card POLYLAC PA-707(+), PA-707K(+)	UL Yellow Card "POLYLAC" PA-707(+)	Unit	Test Method
Deflection Temperature Under Load					ISO 75-2/A
1.8 MPa, Unannealed	83.0	--	--	°C	
1.8 MPa, Annealed	98.0	--	--	°C	
Vicat Softening Temperature					
--	100	--	--	°C	ISO 306/B50
--	104	--	--	°C	ISO 306/A50
CLTE - Flow	8.4E-5	--	--	cm/cm/°C	ISO 11359-2
RTI Elec					UL 746B
1.5 mm	--	60.0	60.0	°C	
3.0 mm	--	60.0	60.0	°C	
RTI Imp					UL 746B
1.5 mm	--	60.0	60.0	°C	
3.0 mm	--	60.0	60.0	°C	



Thermal	POLYLAC® PA-707	UL Yellow Card POLYLAC PA-707(+), PA-707K(+)	UL Yellow Card "POLYLAC" PA-707(+)	Unit	Test Method
RTI Str					UL 746B
1.5 mm	--	60.0	60.0	°C	
3.0 mm	--	60.0	60.0	°C	
Electrical	POLYLAC® PA-707	UL Yellow Card POLYLAC PA-707(+), PA-707K(+)	UL Yellow Card "POLYLAC" PA-707(+)	Unit	Test Method
Arc Resistance	--	PLC 6	PLC 6		ASTM D495
Comparative Tracking Index (CTI)	--	PLC 1	PLC 0		UL 746A
High Amp Arc Ignition (HAI)					UL 746A
1.5 mm	--	PLC 0	PLC 0		
3.0 mm	--	PLC 0	PLC 0		
High Voltage Arc Tracking Rate (HVTR)	--	PLC 2	PLC 2		UL 746A
Hot-wire Ignition (HWI)					UL 746A
1.5 mm	--	PLC 4	PLC 4		
3.0 mm	--	PLC 4	PLC 4		
Flammability	POLYLAC® PA-707	UL Yellow Card POLYLAC PA-707(+), PA-707K(+)	UL Yellow Card "POLYLAC" PA-707(+)	Unit	Test Method
Flame Rating					
1.5 mm	HB	--	--		UL 94
1.5 mm, ALL	--	HB	HB		UL 94
3.0 mm, ALL	--	HB	HB		UL 94
3.0 mm, ALL	--	HB40	HB40		IEC 60695-11-10, -20
1.5 mm, ALL	--	HB75	HB75		IEC 60695-11-10, -20

Notes

- ¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.
- ² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.
- ³ Typical properties: these are not to be construed as specifications.
- ⁴ 2.0 mm/min

