

POLYLAC® PA-709

Acrylonitrile Butadiene Styrene

CHI MEI CORPORATION

Message:

POLYLAC® PA-709 is an Acrylonitrile Butadiene Styrene (ABS) product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

Flame Rated

RoHS Compliant

General Information			
UL YellowCard	E56070-245705		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.03	g/cm ³	ASTM D792
23°C	1.03	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	0.50	g/10 min	
220°C/10.0 kg	15	g/10 min	
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)			
5.00		cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	102		ASTM D785
Ball Indentation Hardness (H 358/30)	86.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
Yield	40.0	MPa	ISO 527-2/50
Break	32.0	MPa	ISO 527-2/50
3.00 mm ¹	39.2	MPa	ASTM D638
Tensile Elongation			
Break, 3.00 mm ²	40	%	ASTM D638
Break	55	%	ISO 527-2/50
Flexural Modulus			
6.00 mm ³	2260	MPa	ASTM D790
-- ⁴	1800	MPa	ISO 178
Flexural Strength			
6.00 mm ⁵	62.8	MPa	ASTM D790
-- ⁶	58.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	41	kJ/m ²	ISO 179

Charpy Unnotched Impact Strength	No Break		ISO 179
Notched Izod Impact			
23°C, 3.00 mm	440	J/m	ASTM D256
23°C, 6.00 mm	360	J/m	ASTM D256
--	37	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	No Break		ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed	85.0	°C	ASTM D648
1.8 MPa, Unannealed	88.0	°C	ISO 75-2/A
1.8 MPa, Annealed	95.0	°C	ASTM D648
1.8 MPa, Annealed	98.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	105	°C	ASTM D1525 ⁷
--	103	°C	ISO 306/A50
--	94.0	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 85.0	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	180 to 220	°C	
Middle Temperature	190 to 230	°C	
Front Temperature	190 to 230	°C	
Mold Temperature	30.0 to 70.0	°C	
NOTE			
1.	6.0 mm/min		
2.	6.0 mm/min		
3.	2.8 mm/min		
4.	2.0 mm/min		
5.	2.8 mm/min		
6.	2.0 mm/min		
7.	Rate A (50°C/h)		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

