

POLYLAC® PA-746

Acrylonitrile Butadiene Styrene

CHI MEI CORPORATION

Message:

POLYLAC® PA-746 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	E56070-245714		
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	3.0	g/10 min	
220°C/10.0 kg	34	g/10 min	
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)			ISO 1133
	34.0	cm ³ /10min	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Ball Indentation Hardness (H 358/30)	88.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
Yield	43.0	MPa	ISO 527-2/50
Break	32.0	MPa	ISO 527-2/50
3.00 mm ¹	40.7	MPa	ASTM D638
Tensile Elongation			
Break, 3.00 mm ²	30	%	ASTM D638
Break	15	%	ISO 527-2/50
Flexural Modulus			
6.00 mm ³	2160	MPa	ASTM D790
-- ⁴	1800	MPa	ISO 178
Flexural Strength			
6.00 mm ⁵	63.7	MPa	ASTM D790
-- ⁶	60.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	25	kJ/m ²	ISO 179

Notched Izod Impact			
23°C, 3.00 mm	310	J/m	ASTM D256
23°C, 6.00 mm	250	J/m	ASTM D256
--	22	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed	85.0	°C	ASTM D648
1.8 MPa, Unannealed	87.0	°C	ISO 75-2/A
1.8 MPa, Annealed	95.0	°C	ASTM D648
1.8 MPa, Annealed	96.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	105	°C	ASTM D1525 ⁷
--	102	°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 3.0	hr	
Rear Temperature	180 to 220	°C	
Middle Temperature	190 to 230	°C	
Front Temperature	190 to 230	°C	
Mold Temperature	30.0 to 60.0	°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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