

POLYLAC® PA-747R

Acrylonitrile Butadiene Styrene

CHI MEI CORPORATION

Message:

POLYLAC® PA-747R is an Acrylonitrile Butadiene Styrene (ABS) product. It can be processed by extrusion and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Typical application: Automotive.

Characteristics include:

Flame Rated

RoHS Compliant

General Information			
UL YellowCard	E56070-245721	E56070-245718	
RoHS Compliance	RoHS Compliant		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.04	g/cm³	ASTM D792
23°C	1.04	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	0.25	g/10 min	
220°C/10.0 kg	2.5	g/10 min	
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	2.50	cm³/10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785
Ball Indentation Hardness (H 358/30)	90.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
Yield	44.0	MPa	ISO 527-2/50
Break	33.0	MPa	ISO 527-2/50
3.00 mm ¹	42.2	MPa	ASTM D638
Tensile Elongation			
Break, 3.00 mm ²	40	%	ASTM D638
Break	20	%	ISO 527-2/50
Flexural Modulus			
6.00 mm ³	2260	MPa	ASTM D790
-- ⁴	1700	MPa	ISO 178
Flexural Strength			
6.00 mm ⁵	67.7	MPa	ASTM D790
-- ⁶	61.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	32	kJ/m²	ISO 179

Notched Izod Impact			
23°C, 3.00 mm	440	J/m	ASTM D256
23°C, 6.00 mm	340	J/m	ASTM D256
--	29	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	88.0	°C	ISO 75-2/A
1.8 MPa, Annealed	95.0	°C	ASTM D648
1.8 MPa, Annealed	99.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	105	°C	ASTM D1525 ⁷
--	106	°C	ISO 306/A50
--	101	°C	ISO 306/B50
Flammability	Nominal Value	Test Method	
Flame Rating (1.60 mm)	HB	UL 94	
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0 to 85.0	°C	
Drying Time	2.0 to 4.0	hr	
Cylinder Zone 1 Temp.	190 to 210	°C	
Cylinder Zone 3 Temp.	210 to 240	°C	
Cylinder Zone 5 Temp.	220 to 250	°C	
Die Temperature	200 to 250	°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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