



POLYLAC PA-747 - ABS

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	13	cm ³ /10min	ISO 1133
Temperature	220	°C	-
Load	1	kg	-
ASTM Data			
Melt Flow Index, MFI	1.2	g/10min	ASTM D 1238
Temperature	200	°C	-
Load	0.5	kg	-
Mechanical properties	Value	Unit	Test Standard
ISO Data			
Yield stress	39	MPa	ISO 527
Stress at break	31	MPa	ISO 527
Flexural modulus, 23°C	1800	MPa	ISO 178
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	37	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	34	kJ/m ²	ISO 180/1A
Ball indentation hardness	88	MPa	ISO 2039-1
ASTM Data			
Tensile Strength	37.7	MPa	ASTM D 638
Flexural Modulus	2137	MPa	ASTM D 790
Flexural Strength	60.7	MPa	ASTM D 790
Rockwell Hardness	R 108	-	ASTM D 785
Izod Impact notched, 1/8 in	400	J/m	ASTM D 256
Izod Impact notched, 1/4 in	352	J/m	ASTM D 256
Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	86	°C	ISO 75-1/-2
Vicat softening temperature, A	101	°C	ISO 306
Vicat softening temperature, B	92	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.59	mm	-
Vicat Temperature	103	°C	ASTM D 1525
Other properties	Value	Unit	Test Standard
Density	1030	kg/m ³	ISO 1183
Density	1030	kg/m ³	ASTM D 792

Processing

Injection Molding

Delivery form

Pellets

Special Characteristics

High impact or impact modified

Certifications

Food contact, Food approval FDA 21 CFR

Applications Automotive, General Purpose