

**POLYLAC PA-709S**

ABS

CHIMEI Corporation

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt volume-flow rate, MVR	4	cm <sup>3</sup> /10min	ISO 1133
Temperature	200	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Melt Flow Index, MFI	0.4	g/10min	ASTM D 1238
Temperature	200	°C	-
Load	5	kg	-
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Yield stress	37	MPa	ISO 527
Stress at break	29	MPa	ISO 527
Flexural modulus, 23°C	1500	MPa	ISO 178
Flexural strength	51	MPa	ISO 178
Charpy notched impact strength, +23°C	42	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	30	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	40	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	28	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-30	°C	-
<b>ASTM Data</b>			
Tensile Strength at Yield	36.2	MPa	ASTM D 638
Flexural Modulus	1931	MPa	ASTM D 790
Flexural Strength	55.2	MPa	ASTM D 790
Rockwell Hardness	R 100	-	ASTM D 785
Izod Impact notched, 1/8 in	432	J/m	ASTM D 256
Izod Impact notched, 1/4 in	368	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	81	°C	ISO 75-1/-2
Vicat softening temperature, A	104	°C	ISO 306
Vicat softening temperature, B	98	°C	ISO 306
Coeff. of linear therm. expansion, parallel	95	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.5	mm	-
DTUL @ 264 psi	85.6	°C	ASTM D 648
Vicat Temperature	106	°C	ASTM D 1525
<b>Electrical properties</b>			
<b>ASTM Data</b>			
Arc Resistance	30	s	ASTM D 495
<b>Other properties</b>			
Density	1030	kg/m <sup>3</sup>	ISO 1183
Density	1030	kg/m <sup>3</sup>	ASTM D 792
<b>Processing Recommendation Extrusion</b>			
Type of extrusion	pipe/tube	-	-
Pre-drying - Temperature	80 - 85	°C	-
Pre-drying - Time	2 - 4	h	-
Feed temperature	190 - 210	°C	-

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Zone 1	<b>210 - 240</b>	°C	-
Nozzle temperature	<b>220 - 250</b>	°C	-

**Characteristics****Processing**

Pipe/Tube Extrusion, Other Extrusion

**Special Characteristics**

High impact or impact modified

**Delivery form**

Pellets

**Regional Availability**

Asia Pacific