

## Chi Mei Polylac® PA-709S ABS - Extrusion

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Impact Grade, Molded

### Material Notes:

Super Impact Extrusion

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chi-Mei-Polylac-PA-709S-ABS-Extrusion.php](http://www.lookpolymers.com/polymer_Chi-Mei-Polylac-PA-709S-ABS-Extrusion.php)

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	ASTM D955
Melt Flow	0.40 g/10 min	0.40 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	4.5 g/10 min	4.5 g/10 min	ISO-1133
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Ball Indentation Hardness	75.0 MPa	10900 psi	H358/30; ISO 2039-1
Tensile Strength at Break	28.0 MPa	4060 psi	50 mm/min; ISO 527
Tensile Strength, Yield	36.0 MPa	5220 psi	50 mm/min; ISO 527
Elongation at Break	30 %	30 %	50 mm/min; ISO 527
Flexural Strength	51.0 MPa	7400 psi	2 mm/min; ISO 178
Flexural Modulus	1.50 GPa	218 ksi	2 mm/min; ISO 178
Izod Impact, Notched	3.99 J/cm	7.47 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	
	4.49 J/cm	8.41 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched (ISO)	31.0 kJ/m <sup>2</sup>	14.8 ft-lb/in <sup>2</sup>	ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	ISO 180/1C
Charpy Impact Unnotched	NB	NB	ISO 179

Charpy Impact, Notched Mechanical Properties	3.30 J/cm <sup>2</sup> Metric	15.7 ft-lb/in <sup>2</sup> English	ISO 179 Comments
Impact	20.0	20.0	Impact Flexural Test Notched (KJ/m <sup>2</sup> )
	NB	NB	Impact Flexural Test Unnotched (KJ/m <sup>2</sup> )

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	86.0 °C	187 °F	unannealed; ISO 75
	96.0 °C	205 °F	annealed; ISO 75
Vicat Softening Point	98.0 °C	208 °F	50°C/hr; ISO 306
	@Load 5.00 kg	@Load 11.0 lb	
	102 °C	216 °F	120°C/hr; ISO 306
	@Load 5.00 kg	@Load 11.0 lb	
	104 °C	219 °F	50°C/hr; ISO 306
	@Load 1.00 kg	@Load 2.20 lb	
	106 °C	223 °F	120°C/hr; ISO 306
	@Load 1.00 kg	@Load 2.20 lb	
Flammability, UL94	HB	HB	UL 94
	@Thickness 1.59 mm	@Thickness 0.0625 in	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China