

# ALPHALAC SH-860

## High Impact Polystyrene

### LG Chem Ltd.

General				
Material Status	• Commercial: Active			
Availability	• Asia Pacific	• North America	• South America	
Forms	• Pellets			
Physical		Nominal Value	Unit	Test Method
Specific Gravity		1.03	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)				ASTM D1238
200°C/5.0 kg		3.0	g/10 min	
220°C/10.0 kg		43	g/10 min	
230°C/3.8 kg		10	g/10 min	
Mechanical		Nominal Value	Unit	Test Method
Tensile Modulus <sup>2</sup>		22000	MPa	ASTM D638
Tensile Strength <sup>3</sup> (Yield)		0.00	MPa	ASTM D638
Tensile Elongation <sup>3</sup>				ASTM D638
Yield		5.0	%	
Break		130	%	
Flexural Modulus <sup>4</sup>		17000	MPa	ASTM D790
Flexural Strength <sup>4</sup>		46.4	MPa	ASTM D790
Impact		Nominal Value	Unit	Test Method
Notched Izod Impact				ASTM D256
-30°C, 3.18 mm		68.6	J/m	
-30°C, 6.35 mm		58.8	J/m	
23°C, 3.18 mm		167	J/m	
23°C, 6.35 mm		98.0	J/m	
Hardness		Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)		85		ASTM D785
Thermal		Nominal Value	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed, 6.35 mm		93.0	°C	
0.45 MPa, Annealed, 6.35 mm		95.0	°C	
1.8 MPa, Unannealed, 6.35 mm		83.0	°C	
1.8 MPa, Annealed, 6.35 mm		81.0	°C	
Vicat Softening Temperature		92.0	°C	ASTM D1525 <sup>5</sup>
Flammability		Nominal Value	Unit	Test Method
Flame Rating - UL (3.18 mm)		HB		UL 94
<b>Notes</b>				
<sup>1</sup> Typical properties: these are not to be construed as specifications.				
<sup>2</sup> 1.0 mm/min				
<sup>3</sup> 50 mm/min				
<sup>4</sup> 15 mm/min				
<sup>5</sup> Rate A (50°C/h), Loading 2 (50 N)				

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 [www.kedisujiao.com](http://www.kedisujiao.com)

备注：以上原料物性数据由IDES发布, 我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！