

The BMC Grade A-102-8 has been specifically formulated for injection molding of automotive headlamp reflector applications. Material exhibits extremely low weight loss factors, exceptional anti-fogging and excellent surface profile for basecoat adhesion and overall aesthetics of the molded part after metallization.

Property	Test Method, Unit	Properties	Test Method, Unit	Properties
<b>Physical and Mechanical Properties</b>				
Impact Strength	ASTM D256, FT- LBS/IN	4 – 5	ISO-179, kJ/m <sup>2</sup>	20 – 25
Flexural Strength	ASTM D790, PSI	13 – 15,000	ISO-178, MPa	90 – 103
Flexural Modulus	ASTM D790, 10 <sup>6</sup> PSI	--	ISO-178, GPa	--
Tensile Strength	ASTM D638, PSI	5 – 6,000	ISO-527, MPa	34 – 41
Compressive Strength	ASTM D695, PSI	18,000	ISO-604, MPa	124
Water Absorption	ASTM D570, %	--	ISO-62, %	--
Specific Gravity	ASTM D792, G/CM <sup>3</sup>	1.96 – 2.05	ISO-1183, --	1.96 – 2.05
Shrinkage	ASTM D955, IN/IN	-0.04 – -0.10	ISO-2577, %	-4 – -10
Hardness	ASTM D2583, Barcol	--	ASTM D2583, Barcol	--
Bulk Factor App.	ASTM D1895, --	1	ASTM D1895, --	1
<b>Electrical Properties</b>				
Dielectric Strength	ASTM D149, kV/in	--	ISO-243, kV/mm	--
Arc Resistance	ASTM D495, Seconds	--	ASTMD495, Seconds	--
<b>Thermal &amp; Flame Retardant Properties</b>				
Heat Deflection Temperature @ 264PSI	ASTM D648, °F	>--	ISO-75, °C	> --
Flame Resistance				
@ 1.5 mm		--		--
@ 3.0 mm	UL94	--	UL94	--
@ 6.0 mm		--		--

[www.idicomposites.com](http://www.idicomposites.com)

**The Americas**

IDI Composites International  
407 S. 7th Street  
Noblesville, IN 46060 U.S.A.  
317-773-1766  
Fax: 317-773-3877  
[info@idicomposites.com](mailto:info@idicomposites.com)

IDI Composites International  
P.O. Box 400  
Road #3, KM 151.8  
Aguirre, Puerto Rico 00704  
787-853-2186  
Fax: 787-853-2187  
[lcruz@idicomposites.com](mailto:lcruz@idicomposites.com)

**Asia/Pacific**

IDI Composites International  
No. 8, Lane 275, QianPu Road  
New Eastern Section of  
Sonjiang Industrial Park  
Shanghai, 201611 China  
86-21-51096910  
Fax: 86-21-67601689  
[rrodriguez@idicomposites.com](mailto:rrodriguez@idicomposites.com)

IDI Composites International  
Shenzhen Company, LTD.  
Fucheng Industrial Park, Hongtian  
Xingjiao, Sajing Town, Bao An  
Shenzhen, China 518125  
86-755-27229550  
Fax: 86-755-27229554  
[rrodriguez@idicomposites.com](mailto:rrodriguez@idicomposites.com)

**Europe**

IDI Composites International  
Unit One, Oldbury Park  
Popes Lane  
Oldbury, West Midlands  
B69 4RG U.K.  
44-121-552-0038  
Fax: 44-121-543-5377  
[pqarland@idicomposites.co.uk](mailto:pqarland@idicomposites.co.uk)