

**Technical Data**

**Product Description**

Diakon® ST25G8 is a Polymethyl Methacrylate Acrylic material. It is available in Europe for injection molding. Primary attribute of Diakon® ST25G8: Flame Rated.

Typical application of Diakon® ST25G8: Automotive

**General**

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a>
UL Yellow Card <sup>2</sup>	• <a href="#">E108947-218760</a>
Search for UL Yellow Card	• <a href="#">Lucite International Holland BV</a> • <a href="#">Diakon®</a>
Availability	• Europe
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.17 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.5 g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.70 %	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.32 %	ISO 62
Mechanical	Nominal Value Unit	Test Method
Tensile Stress	63.0 MPa	ISO 527-2
Tensile Strain (Break)	15 %	ISO 527-2
Flexural Modulus	2500 MPa	ISO 178
Flexural Stress	85.0 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength	3.9 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength	42 kJ/m <sup>2</sup>	ISO 179/1eU
Notched Izod Impact Strength	3.6 kJ/m <sup>2</sup>	ISO 180/1A
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (M-Scale)	71	ISO 2039-2
Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature 1.8 MPa, Unannealed	95.0 °C	ISO 75-2/A
Vicat Softening Temperature --	111 °C	ISO 306/A
--	102 °C	ISO 306/B
CLTE - Flow	1.0E-4 cm/cm/°C	ASTM E831
Flammability	Nominal Value Unit	Test Method
Flame Rating	HB	UL 94
Glow Wire Ignition Temperature	650 °C	IEC 60695-2-13
Optical	Nominal Value Unit	Test Method
Refractive Index	1.490	ISO 489
Transmittance	91.0 %	ASTM D1003
Haze	2.00 %	ASTM D1003



Injection	Nominal Value Unit
Drying Temperature	80 °C
Drying Time	3.0 to 4.0 hr
Hopper Temperature	50 to 90 °C
Rear Temperature	190 to 250 °C
Middle Temperature	210 to 270 °C
Front Temperature	210 to 290 °C
Nozzle Temperature	220 to 280 °C
Mold Temperature	50 to 90 °C

**Notes**

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>3</sup> Typical properties: these are not to be construed as specifications.



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Where to Buy

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Supplier

**Lucite International Holland BV**  
Rozenburg, The Netherlands  
**Telephone:** +31-181-233-233  
**Web:** <http://www.lucitediakon.com/>

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Distributor

**ALBIS Plastic**

*ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country.*

**Telephone:** +49-40-78105-0

**Web:** <http://www.albis.com/>

**Availability:** Algeria, Austria, Germany, Morocco, Russian Federation, Switzerland, Tunisia

**Distrupol Ltd**

*Distrupol Ltd is a Pan European distribution company. Contact Distrupol Ltd for availability of individual products by country.*

**Telephone:** 08452003040

**Web:** <http://www.distrupol.com/>

**Availability:** Belgium, Denmark, Finland, Ireland, Luxembourg, Netherlands, Norway, Sweden, United Kingdom

**GAZECHIM PLASTIQUES**

*GAZECHIM PLASTIQUES is a Pan European distribution company. Contact GAZECHIM PLASTIQUES for availability of individual products by country.*

**Telephone:** +33-4-67-49-55-37

**Web:** <http://www.gazechim.com/>

**Availability:** France, Italy

**Ultrapolymers**

*Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.*

**Telephone:** +32-11-57-95-57

**Web:** <http://www.ultrapolymers.com/>

**Availability:** Bosnia and Herzegovina, Bulgaria, Macedonia, Romania, Serbia, Slovakia, Turkey

