

**Diakon Light Plus 835 DL40**

PMMA

Lucite International

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt flow index, MFI	<b>1.7</b>	g/10min	ISO 1133
Molding shrinkage, parallel	<b>0.6</b>	%	ISO 294-4, 2577

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Strength	<b>43</b>	MPa	ISO 527
Flexural modulus, 23°C	<b>1900</b>	MPa	ISO 178
Flexural strength	<b>62</b>	MPa	ISO 178
Charpy impact strength, +23°C	<b>74</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	<b>6.2</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	<b>5.5</b>	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	<b>M 24</b>	-	ISO 2039-2

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>93</b>	°C	ISO 75-1/-2
Vicat softening temperature, A	<b>108</b>	°C	ISO 306
Vicat softening temperature, B	<b>91</b>	°C	ISO 306
Burning behav. at thickness h	<b>HB</b>	class	IEC 60695-11-10

<b>Optical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>Other Standards<sup>[5]</sup></b>			
Gloss	<b>79</b>	-	
Light Transmittance	<b>64</b>	%	

S: These properties are reported by the producer according standards that are different to our defaults.

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Water absorption	<b>0.36</b>	%	Sim. to ISO 62
Density	<b>1140</b>	kg/m <sup>3</sup>	ISO 1183

**Characteristics****Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa