

**DIMOND 869 U2**  
(AEPDS+ASA+PMMA)

MAIP SRL

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt flow index, MFI	<b>3</b>	g/10min	ISO 1133
Temperature	<b>230</b>	°C	-
Load	<b>3.8</b>	kg	-
Molding shrinkage, parallel	<b>0.6</b>	%	ISO 294-4, 2577
Molding shrinkage, normal	<b>0.6</b>	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Yield stress	<b>43</b>	MPa	ISO 527
Stress at break	<b>35</b>	MPa	ISO 527
Strain at break	<b>25</b>	%	ISO 527
Flexural modulus, 23°C	<b>2000</b>	MPa	ISO 178
Flexural strength	<b>68</b>	MPa	ISO 178
Charpy notched impact strength, +23°C	<b>11</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	<b>11.5</b>	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	<b>R 113</b>	-	ISO 2039-2

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>90<sup>[ann.]</sup></b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	<b>70</b>	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	<b>70</b>	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	<b>HB</b>	class	IEC 60695-11-10
Burning rate, FMVSS, Thickness 1 mm	<b>100</b>	mm/min	ISO 3795 (FMVSS 302)

ann.: annealed

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Surface resistivity	<b>1E14</b>	Ohm	IEC 62631-3-2

Other properties	Value	Unit	Test Standard
Density	<b>1120</b>	kg/m <sup>3</sup>	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	<b>85 - 95</b>	°C	-
Pre-drying - Time	<b>6 - 8</b>	h	-
Processing humidity	<b>≤0.08</b>	%	-
Melt temperature	<b>230 - 280</b>	°C	-
Mold temperature	<b>50 - 80</b>	°C	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

Europe