

Formosa TAIRILAC[®] HP835G

Availability: Asia Pacific; Europe; North America
Agency Rating: EC 1907/2006 (REACH)

Physical Properties	Metric	English	Comments
Melt Flow	3.7 g/10 min @Load 5.00 kg, Temperature 200 °C	3.7 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength	28.0 MPa	4060 psi	ASTM D638
Elongation at Break	55 %	55 %	ASTM D638
Flexural Strength	54.0 MPa	7830 psi	ASTM D790
Flexural Modulus	2.18 GPa	316 ksi	ASTM D790
Izod Impact, Unnotched	1.07 J/cm @Thickness 6.35 mm	2.00 ft-lb/in @Thickness 0.250 in	ASTM D256
Izod Impact, Unnotched (ISO)	107 kJ/m ² @Thickness 4.00 mm	51.0 ft-lb/in ² @Thickness 0.157 in	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	88.9 °C @Thickness 6.35 mm	192 °F @Thickness 0.250 in	Annealed; ASTM D648
Vicat Softening Point	101 °C @Load 5.10 kg	214 °F @Load 11.2 lb	ASTM D1525
Flammability, UL94	HB @Thickness 1.52 mm	HB @Thickness 0.0600 in	All Color
	HB @Thickness 3.05 mm	HB @Thickness 0.120 in	All Color

Optical Properties	Metric	English	Comments
Gloss	98 %	98 %	ASTM D523