



CYCOLAC™ Resin INP630
Americas: COMMERCIAL

INP630 is a specialty polymer that increases the service temperature of products. Can be used with a impact modifier to provide impact strength as well as high heat resistance. Provides excellent high heat resistance in thermoplastic polymers. Offers excellent flow properties in outdoor applications.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Flexural Stress, yld, 1.3 mm/min, 50 mm span	1170	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	39500	kgf/cm ²	ASTM D 790
Flexural Stress, yield, 2 mm/min	58	MPa	ISO 178
Flexural Modulus, 2 mm/min	3620	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	1	cm-kgf/cm	ASTM D 256
Izod Impact, notched, -30°C	1	cm-kgf/cm	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	3	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	1	kJ/m ²	ISO 180/1A
Charpy Impact, notched, 23°C	1	kJ/m ²	ISO 179/2C
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	110	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	100	°C	ASTM D 648
Vicat Softening Temp, Rate B/50	116	°C	ISO 306
Vicat Softening Temp, Rate B/120	118	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	99	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.09	-	ASTM D 792
Melt Flow Rate, 230°C/3.8 kgf	10.9	g/10 min	ASTM D 1238
Density	1.09	g/cm ³	ISO 1183
Melt Flow Rate, 220°C/10.0 kg	21	g/10 min	ISO 1133
OPTICAL			
Yellowness Index	6	-	ASTM D 1925

