

## SABIC Innovative Plastics Cyclac® INP581 ABS

Category : Polymer , Thermoplastic , ABS Polymer

### Material Notes:

High flow, low molecular weight SAN. Can be used as compounding additives for polymer blends. Can be blended with high rubber graft modifier resins to produce customized ABS properties. Suitable for direct weather exposure. Provides excellent flow for demanding injection molding applications. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Cyclac-INP581-ABS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cyclac-INP581-ABS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D 792
Density	1.07 g/cc	0.0387 lb/in <sup>3</sup>	ISO 1183
Melt Flow	37.7 g/10 min	37.7 g/10 min	ASTM D 1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	
	98 g/10 min	98 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D 785
Tensile Strength at Break	60.0 MPa	8700 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	48.0 MPa	6960 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	1.9 %	1.9 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	1.5 %	1.5 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	4.08 GPa	592 ksi	5 mm/min; ASTM D 638
Flexural Yield Strength	36.0 MPa	5220 psi	2 mm/min; ISO 178
	66.0 MPa	9570 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	3.44 GPa	499 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	3.52 GPa	511 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.120 J/cm	0.225 ft-lb/in	ASTM D 256
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	0.230 J/cm Metric	0.431 ft-lb/in English	Comments ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	1.00 kJ/m <sup>2</sup>	0.476 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.00 kJ/m <sup>2</sup>	0.476 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.100 J/cm <sup>2</sup>	0.476 ft-lb/in <sup>2</sup>	ISO 179/2C
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	97.0 °C	207 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	82.0 °C	180 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	86.0 °C	187 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	102 °C	216 °F	Rate B/50; ISO 306
	104 °C	219 °F	Rate B/120; ISO 306

Optical Properties	Metric	English	Comments
Yellow Index	1.0 %	1.0 %	ASTM D 1925

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