

CYCOLAC™ INP581 resin

Acrylonitrile Butadiene Styrene + SAN

SABIC Innovative Plastics

Message:

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.

General Information			
Features	Low molecular weight		
	High liquidity		
	Good weather resistance		
Uses	Additive		
RoHS Compliance	RoHS compliance		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.08	g/cm ³	ASTM D792
--	1.07	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
230°C/3.8 kg	38	g/10 min	ASTM D1238
220°C/10.0 kg	98	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	4090	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	48.8	MPa	ASTM D638
Fracture	60.2	MPa	ASTM D638
Tensile Elongation ³			ASTM D638
Yield	1.5	%	ASTM D638
Fracture	1.9	%	ASTM D638
Flexural Modulus			
50.0mm span ⁴	3440	MPa	ASTM D790
-- ⁵	3520	MPa	ISO 178
Flexural Stress			
--	36.3	MPa	ISO 178
Yield, 50.0mm span ⁶	66.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	1.5	kJ/m ²	ISO 179/2C
Notched Izod Impact			

-30°C	12	J/m	ASTM D256
23°C	23	J/m	ASTM D256
-30°C ⁷	1.4	kJ/m ²	ISO 180/1A
23°C ⁸	1.6	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	97.6	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	86.9	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁹	82.9	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	103	°C	ISO 306/B50
--	105	°C	ISO 306/B120
Optical	Nominal Value	Unit	Test Method
Yellowness Index	1.6	YI	ASTM D1925
NOTE			
1.	5.0 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

