

CYCOLAC™ INP563 resin

Acrylonitrile Butadiene Styrene + SAN

SABIC Innovative Plastics

Message:

SABIC INP563 provides compatibility with a wider range of ABS grades than many color concentrate bases; allows better dispersion than pellets; allows concentrate manufacturers to produce both pelletized and dry blend concentrate; provides a base resin with less heat history than pellets; suitable for direct weather exposure; can be used in all SAN applications where a fine particle size is desired.

General Information			
Features	Good Weather Resistance		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
230°C/3.8 kg	20	g/10 min	ASTM D1238
220°C/10.0 kg	47	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	123		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3860	MPa	ASTM D638
--	3970	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	69.2	MPa	ASTM D638
Yield	74.6	MPa	ISO 527-2/50
Break ³	69.2	MPa	ASTM D638
Break	74.6	MPa	ISO 527-2/50
Tensile Elongation			
Yield ⁴	2.4	%	ASTM D638
Yield	2.0	%	ISO 527-2/50
Break ⁵	2.4	%	ASTM D638
Break	2.0	%	ISO 527-2/50
Flexural Modulus			
50.0 mm Span ⁶	3770	MPa	ASTM D790
-- ⁷	3460	MPa	ISO 178
Flexural Stress			
--	46.5	MPa	ISO 178
Yield, 50.0 mm Span ⁸	93.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	1.1	kJ/m ²	ISO 179/2C
Notched Izod Impact			
-30°C	23	J/m	ASTM D256

23°C	19	J/m	ASTM D256
-30°C ⁹	2.8	kJ/m ²	ISO 180/1A
23°C ¹⁰	2.1	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	95.7	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	82.7	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	85.8	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	103	°C	ISO 306/B50
--	105	°C	ISO 306/B120
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	1.3 mm/min		
9.	80*10*4		
10.	80*10*4		
11.	80*10*4 mm		

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