

CYCOLAC™ INP576 resin

Acrylonitrile Butadiene Styrene + SAN

SABIC Innovative Plastics

Message:

Can be used as compounding additives for polymer blends. Medium molecular weight SAN. Can be blended with high rubber graft modifier resins to produce customized ABS properties. Suitable for direct weather exposure. Most versatile SAN for balance of processing and physical properties.

General Information			
Features	Good weather resistance Medium molecular weight		
Uses	Additive		
RoHS Compliance	RoHS compliance		
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	23	g/10 min	ASTM D1238
220°C/10.0 kg	79	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	3970	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	41.6	MPa	ASTM D638
Fracture	68.0	MPa	ASTM D638
Tensile Elongation ³			ASTM D638
Yield	1.4	%	ASTM D638
Fracture	2.2	%	ASTM D638
Flexural Modulus			
50.0mm span ⁴	3570	MPa	ASTM D790
-- ⁵	3540	MPa	ISO 178
Flexural Stress			
--	68.7	MPa	ISO 178
Yield, 50.0mm span ⁶	96.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	1.6	kJ/m ²	ISO 179/2U
Notched Izod Impact			
-30°C	13	J/m	ASTM D256
23°C	22	J/m	ASTM D256
-30°C ⁷	1.5	kJ/m ²	ISO 180/1A

23°C ⁸	1.8	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	98.5	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	87.0	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁹	84.5	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	102	°C	ISO 306/B50
--	106	°C	ISO 306/B120
Optical	Nominal Value	Unit	Test Method
Yellowness Index	1.5	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 |

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