

CYCOLAC™ INP630 resin

Acrylonitrile Butadiene Styrene + SAN

SABIC Innovative Plastics

Message:

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.

General Information			
Features	High Flow		
	High Heat Resistance		
	High Impact Resistance		
Uses	Outdoor Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
230°C/3.8 kg	11	g/10 min	ASTM D1238
220°C/10.0 kg	22	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus			
50.0 mm Span ¹	3880	MPa	ASTM D790
-- ²	3620	MPa	ISO 178
Flexural Stress			
--	58.0	MPa	ISO 178
Yield, 50.0 mm Span ³	115	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	1.4	kJ/m ²	ISO 179/2C
Notched Izod Impact			
-30°C	14	J/m	ASTM D256
23°C	19	J/m	ASTM D256
-30°C ⁴	1.8	kJ/m ²	ISO 180/1A
23°C ⁵	3.2	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	110	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	100	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁶	99.6	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	116	°C	ISO 306/B50
--	118	°C	ISO 306/B120

Optical	Nominal Value	Unit	Test Method
Yellowness Index	6.1	YI	ASTM D1925
NOTE			
1.	1.3 mm/min		
2.	2.0 mm/min		
3.	1.3 mm/min		
4.	80*10*4		
5.	80*10*4		
6.	80*10*4 mm		

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