



CYCOLAC™ Resin INP563

Europe-Africa-Middle East: COMMERCIAL

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.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	700	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	700	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	2.4	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.4	%	ASTM D 638
Tensile Modulus, 5 mm/min	39300	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	950	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	38400	kgf/cm ²	ASTM D 790
Hardness, Rockwell R	123	-	ASTM D 785
Tensile Stress, yield, 50 mm/min	74	MPa	ISO 527
Tensile Stress, break, 50 mm/min	74	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	2	%	ISO 527
Tensile Strain, break, 50 mm/min	2	%	ISO 527
Tensile Modulus, 1 mm/min	3970	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	46	MPa	ISO 178
Flexural Modulus, 2 mm/min	3460	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	1	cm-kgf/cm	ASTM D 256
Izod Impact, notched, -30°C	2	cm-kgf/cm	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	2	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	2	kJ/m ²	ISO 180/1A
Charpy Impact, notched, 23°C	1	kJ/m ²	ISO 179/2C
THERMAL			
HDT, 0.45 MPa, 3.2 mm	95	°C	ASTM D 648





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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	82	°C	ASTM D 648
Vicat Softening Temp, Rate B/50	102	°C	ISO 306
Vicat Softening Temp, Rate B/120	104	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	85	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.08	-	ASTM D 792
Melt Flow Rate, 230°C/3.8 kgf	19.5	g/10 min	ASTM D 1238
Density	1.08	g/cm ³	ISO 1183
Melt Flow Rate, 220°C/10.0 kg	47	g/10 min	ISO 1133

