+135-3858-6433 (GuangDong)
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CYCOLAC™ Resin INP564

Europe-Africa-Middle East: COMMERCIAL

SABIC INP564 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	530	kgf/cm²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	540	kgf/cm²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	1.6	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.7	%	ASTM D 638
Tensile Modulus, 5 mm/min	39600	kgf/cm²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	840	kgf/cm²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	37900	kgf/cm²	ASTM D 790
Hardness, Rockwell R	123	-	ASTM D 785
Tensile Stress, yield, 50 mm/min	54	MPa	ISO 527
Tensile Stress, break, 50 mm/min	54	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	1.2	%	ISO 527
Tensile Strain, break, 50 mm/min	1.2	%	ISO 527
Tensile Modulus, 1 mm/min	3840	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	65	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	1	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	2	kJ/m²	ISO 180/1A
Charpy Impact, notched, 23°C	1	kJ/m²	ISO 179/2C
THERMAL			
HDT, 0.45 MPa, 3.2 mm	95	°C	ASTM D 648

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
(4) Internal measurements according to UL standards.
(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:

PLEASE CONTACT YOUR LOCAL SALES OFFICE FOR AVAILABILITY IN YOUR AREA

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Europe-Africa-Middle East: COMMERCIAL

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	83	°C	ASTM D 648
Vicat Softening Temp, Rate B/50	101	°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	37.8	g/10 min	ASTM D 1238
Density	1.07	g/cm³	ISO 1183
Melt Flow Rate, 220°C/10.0 kg	78	g/10 min	ISO 1133

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