SABIC CYCOLAC™ ABS INP564物性表

属性	典型值	UNITS	测试手段
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	52	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	53	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	1.6	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	1.7	%	ASTM D638
Tensile Modulus, 5 mm/min	3890	MPa	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	82	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	3720	MPa	ASTM D790
Hardness, Rockwell R	123	-	ASTM D785
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	14	J/m	ASTM D256
Izod Impact, notched, -30°C	22	J/m	ASTM D256
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 D648
HDT, 1.82 MPa, 3.2mm, unannealed	83	°C	ASTM D648

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 D792
Melt Flow Rate, 230°C/3.8 kg	37.8	g/10 min	ASTM D1238
Density	1.07	g/cm³	ISO 1183
Melt Flow Rate, 220°C/10.0 kg	78	g/10 min	ISO 1133
OPTICAL			
Light Transmission, 2.54 mm	92	%	ASTM D1003
Haze, 2.54 mm	2.2	%	ASTM D1003