



PC+ ABS, High Impact and High Flow, ductility at low temperature, excellent properties retention after Hydrolytic and Heat Aging

TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	560	kgf/cm²	ASTM D 638
Tensile Stress, brk, Type I, 50 mm/min	530	kgf/cm²	ASTM D 638
Tensile Strain, yld, Type I, 50 mm/min	4.7	%	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	115	%	ASTM D 638
Tensile Modulus, 5 mm/min	23400	kgf/cm²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	900	kgf/cm²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	23400	kgf/cm²	ASTM D 790
Tensile Stress, yield, 50 mm/min	54	MPa	ISO 527
Tensile Stress, break, 50 mm/min	51	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	4.5	%	ISO 527
Tensile Strain, break, 50 mm/min	115	%	ISO 527
Tensile Modulus, 1 mm/min	2200	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	83	MPa	ISO 178
Flexural Modulus, 2 mm/min	2200	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	65	cm-kgf/cm	ASTM D 256
Izod Impact, notched, -30°C	48	cm-kgf/cm	ASTM D 256
Instrumented Impact Total Energy, 23°C	571	cm-kgf	ASTM D 3763
Instrumented Impact Total Energy, -30°C	713	cm-kgf	ASTM D 3763
Izod Impact, notched 80*10*3 +23°C	70	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*3 -30°C	45	kJ/m²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*3 sp=62mm	70	kJ/m²	ISO 179/1eA

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

Typical values only. Variations within normal tolerances are possible for variose colours. All values are measured at least after 48 hours storage at 230C/50% relative humidity.
 All properties, expect the melt volume rate are measured on injection moulded samples. All samples are prepared according to ISO 294.

²⁾ Only typical data for material selection purpose Not to be used for part or tool design.
3) This rating is not intended to reflect hazards presented this or any other material under actual fire conditions.
4) Oven measurement according to UL.
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.





TYPICAL PROPERTIES 1	TYPICAL VALUE	UNIT	STANDARD	
IMPACT				
Charpy -30°C, V-notch Edgew 80*10*3 sp=62mm	45	kJ/m²	ISO 179/1eA	
THERMAL				
/icat Softening Temp, Rate B/50	127	°C	ASTM D 1525	
HDT, 1.82 MPa, 3.2mm, unannealed	107	°C	ASTM D 648	
CTE, -40°C to 40°C, flow	7.E-05	1/°C	ASTM E 831	
CTE, -40°C to 40°C, xflow	7.E-05	1/°C	ASTM E 831	
Thermal Conductivity	0.2	W/m-°C	ISO 8302	
CTE, -40°C to 40°C, flow	8.E-05	1/°C	ISO 11359-2	
CTE, -40°C to 40°C, xflow	8.E-05	1/°C	ISO 11359-2	
Ball Pressure Test, 75°C +/- 2°C	Pass	-	IEC 60695-10-2	
/icat Softening Temp, Rate B/50	127	°C	ISO 306	
/icat Softening Temp, Rate B/120	129	°C	ISO 306	
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	126	°C	ISO 75/Bf	
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	105	°C	ISO 75/Af	
Relative Temp Index, Elec	60	°C	UL 746B	
Relative Temp Index, Mech w/impact	60	°C	UL 746B	
Relative Temp Index, Mech w/o impact	60	°C	UL 746B	
PHYSICAL				
Specific Gravity	1.14	-	ASTM D 792	
Mold Shrinkage, flow, 3.2 mm (5)	0.5 - 0.7	%	SABIC Method	
Mold Shrinkage, xflow, 3.2 mm (5)			SABIC Method	
Melt Flow Rate, 260°C/5.0 kgf	22	g/10 min	ASTM D 1238	
Density	1.14	g/cm³	ISO 1183	
Water Absorption, (23°C/sat)	0.4	%	ISO 62	
Moisture Absorption (23°C / 50% RH)	0.15	%	ISO 62	

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TYPICAL PROPERTIES 1	TYPICAL VALUE	UNIT	STANDARD
PHYSICAL			
Melt Volume Rate, MVR at 260°C/5.0 kg	21	cm ³ /10 min	ISO 1133
Melt Viscosity, 260°C, 1500 sec-1	195	Pa-s	ISO 11443
ELECTRICAL			
Volume Resistivity	>1.E+15	Ohm-cm	IEC 60093
Surface Resistivity, ROA	>1.E+15	Ohm	IEC 60093
Dielectric Strength, in oil, 0.8 mm	35	kV/mm	IEC 60243-1
Dielectric Strength, in oil, 1.6 mm	25	kV/mm	IEC 60243-1
Dielectric Strength, in oil, 3.2 mm	17	kV/mm	IEC 60243-1
FLAME CHARACTERISTICS			
UL Recognized, 94HB Flame Class Rating (3)	1.5	mm	UL 94
UL Recognized, 94HB Flame Class Rating 2nd value (3)	3	mm	UL 94
Glow Wire Ignitability Temperature, 3.0 mm	750	°C	IEC 60695-2-13

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PROCESSING PARAMETERS	TYPICAL VALUE	UNIT
Injection Molding		
Drying Temperature	95 - 105	°C
Drying Time	2 - 4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	260 - 290	°C
Nozzle Temperature	240 - 280	°C
Front - Zone 3 Temperature	250 - 290	°C
Middle - Zone 2 Temperature	250 - 290	°C
Rear - Zone 1 Temperature	230 - 260	°C
Hopper Temperature	60 - 80	°C
Mold Temperature	60 - 90	°C

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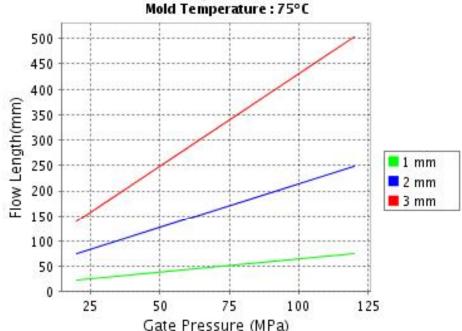
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CALCULATED FLOW LENGTH INDICATION Moldflow® Radial Flow Analysis

Cycoloy* CY9640 Melt Temperature: 265°C



Note: Technical support is recommended if Gate Pressure is greater than 80 MPa. Contact your local representative.

Moldflow is a registered trademark of the Moldflow Corporation.

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