



Europe-Africa-Middle East: COMMERCIAL

CYCOLAC S702 is a high impact ABS combined with a good flow. This material is developed for enclosures and housings found in appliances and automotive industries.

TYPICAL PROPERTIES 1	TYPICAL VALUE	UNIT	STANDARD	
MECHANICAL				
Taber Abrasion, CS-17, 1 kg	70	mg/1000cy	SABIC Method	
Tensile Stress, yield, 5 mm/min	40	MPa	ISO 527	
Tensile Stress, break, 5 mm/min	30	MPa	ISO 527	
Tensile Stress, yield, 50 mm/min	40	MPa	ISO 527	
Tensile Stress, break, 50 mm/min	35	MPa	ISO 527	
Tensile Strain, yield, 5 mm/min	2	%	ISO 527	
Tensile Strain, break, 5 mm/min	10	%	ISO 527	
Tensile Strain, yield, 50 mm/min	2	%	ISO 527	
Tensile Strain, break, 50 mm/min	10	%	ISO 527	
Tensile Modulus, 1 mm/min	2200	MPa	ISO 527	
Flexural Stress, yield, 2 mm/min	62	MPa	ISO 178	
Flexural Modulus, 2 mm/min	2100	MPa	ISO 178	
Hardness, H358/30	83	MPa	ISO 2039-1	
Hardness, Rockwell R	108	-	ISO 2039-2	
IMPACT				
Izod Impact, notched 80*10*4 +23°C	24	kJ/m²	ISO 180/1A	
Izod Impact, notched 80*10*4 -30°C	16	kJ/m²	ISO 180/1A	
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	21	kJ/m²	ISO 179/1eA	
Charpy -30°C, V-notch Edgew 80*10*4 sp=62mm	15	kJ/m²	ISO 179/1eA	
THERMAL				
Thermal Conductivity	0.2	W/m-°C	ISO 8302	
CTE, 23°C to 60°C, flow	8.E-05	1/°C	ISO 11359-2	
CTE, 23°C to 60°C, xflow	8.E-05	1/°C	ISO 11359-2	

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.





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TYPICAL PROPERTIES 1	TYPICAL VALUE	UNIT	STANDARD	
THERMAL				
Ball Pressure Test, 75°C +/- 2°C	PASSES	-	IEC 60695-10-2	
Vicat Softening Temp, Rate B/50	98	°C	ISO 306	
Vicat Softening Temp, Rate B/120	100	°C	ISO 306	
HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm	90	°C	ISO 75/Be	
HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm	77	°C	ISO 75/Ae	
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				
Mold Shrinkage on Tensile Bar, flow (2) (5)	0.5 - 0.7	%	SABIC Method	
Density	1.05	g/cm³	ISO 1183	
Water Absorption, (23°C/sat)	1	%	ISO 62	
Moisture Absorption (23°C / 50% RH)	0.2	%	ISO 62	
Melt Flow Rate, 220°C/10.0 kg	15	g/10 min	ISO 1133	
Melt Volume Rate, MVR at 220°C/10.0 kg	15	cm ³ /10 min	ISO 1133	
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	26	kV/mm	IEC 60243-1	
Dielectric Strength, in oil, 3.2 mm	18	kV/mm	IEC 60243-1	
Relative Permittivity, 50/60 Hz	2.8	-	IEC 60250	
Relative Permittivity, 1 MHz	2.7	-	IEC 60250	
Dissipation Factor, 50/60 Hz	0.005	-	IEC 60250	
Dissipation Factor, 1 MHz	0.01	-	IEC 60250	

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TYPICAL PROPERTIES 1	TYPICAL VALUE	UNIT	STANDARD
ELECTRICAL			
Comparative Tracking Index	600	V	IEC 60112
FLAME CHARACTERISTICS			
UL Recognized, 94HB Flame Class Rating (3)	1.5	mm	UL 94
UL Recognized, 94HB Flame Class Rating 2nd value (3)	2.5	mm	UL 94
Glow Wire Flammability Index 650°C, passes at	1	mm	IEC 60695-2-12

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PROCESSING PARAMETERS	TYPICAL VALUE	UNIT
njection Molding		
Orying Temperature	85 - 95	°C
Orying Time	2 - 4	hrs
Maximum Moisture Content	0.1	%
Melt Temperature	220 - 260	°C
lozzle Temperature	210 - 250	°C
ront - Zone 3 Temperature	220 - 260	°C
Middle - Zone 2 Temperature	220 - 260	°C
Rear - Zone 1 Temperature	200 - 240	°C
lopper Temperature	60 - 80	°C
Mold Temperature	40 - 80	°C

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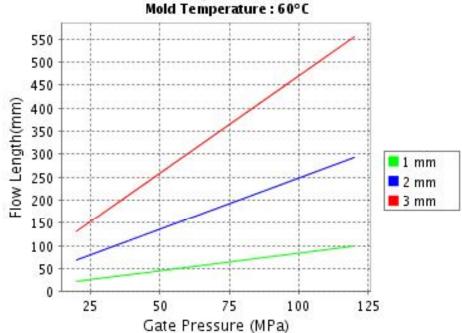




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CALCULATED FLOW LENGTH INDICATION Moldflow® Radial Flow Analysis

Cycolac* 5702 Melt Temperature: 240°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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