

## Cyclooy® Resin C1950

### Americas: COMMERCIAL

0±0.1±0.5-0.2% 1±2% 3±1.2%

TYPICAL PROPERTIES <sup>1</sup>	TYPICAL VALUE	UNIT	STANDARD
<b>MECHANICAL</b>			
$\sigma_{UTS}$ (MPa)	80	Mpa	B110 Uerö
$E_{mod}$ (GPa)	6	Gpa	B110 Uerö
$\epsilon_{elong}$ (%)	0.03	%	B110 Uerö
$\delta_{tensile}$ (%)	1.00	%	B110 Uerö
$\sigma_{yield}$ (MPa)	45	Mpa	B110 Uerö
$\epsilon_{yield}$ (%)	0.01	%	B110 Uerö
$\epsilon_{in屈服}$ (%)	1.00	%	B110 Uerö
<b>IMPACT</b>			
$I_{notched}$ (kJ/m²)	60	kJ/m²	B110 Uiee
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<b>THERMAL</b>			
$T_g$ (°C)	110	°C	pY
$T_d$ (°C)	330	°C	pY
$\alpha$ (10⁻⁶ K⁻¹)	10	10⁻⁶ K⁻¹	10⁻⁶ K⁻¹
$E_{mod}$ (GPa)	60	Gpa	E10 Uerö
$\nu$	0.3		E10 Uerö
$\rho$ (g/cm³)	1.05	g/cm³	E10 Uerö
$\lambda$ (W/mK)	0.22	W/mK	E10 Uerö
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<b>PHYSICAL</b>			
$\rho$ (g/cm³)	1.05	g/cm³	B110 Uerö
$\mu$ (dynes/cm²)	0.11	dynes/cm²	B110 Ueod
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<sup>1</sup> CYCOLOY® RESIN C1950: 2% SBR, 2% BPA, 10% CO<sub>2</sub>, 10% HCl, 10% DMSO, 10% TGA, 10% MA, 10% Urethane, 10% NMP, 20% Cyclopentane, 20% Cyclohexane, 10% Benzene, 10% Methanol, 10% Acetone, 10% Ethyl Acetate.

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TYPICAL PROPERTIES <sup>1</sup>	TYPICAL VALUE	UNIT	STANDARD
<b>PHYSICAL</b>			
Ö±% 1.02 μ $\text{m}^{-1}$	0.06 0.06	Å	ISO 10240-1
Ö» 1.02 ± 0.01	é	1000 Å	ISO 10240-1
<b>ELECTRICAL</b>			
B% 1000 V	é	Ω	ISO 10240-1
Ø±% 1000 V	í	Ω	ISO 10240-1
Ø% 1000 V	í	Ω	ISO 10240-1
Ø% 1000 V	ø	Ω	ISO 10240-1
Y% 1000 V	í	Ω	ISO 10240-1
<b>FLAME CHARACTERISTICS</b>			
ÉO 1000 V	1000 V	33	EN 13541-1

Ö±% 1000 V

Ø±% 1000 V

Ø% 1000 V

Y% 1000 V

1: ISO 10240-1

2: ISO 10240-1

3: ISO 10240-1

4: ISO 10240-1

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PROCESSING PARAMETERS	TYPICAL VALUE	UNIT
<b>Injection Molding</b>		
注射温度 [ °C ]	260	°C
保压时间 [ s ]	10	s
射出速度 [ mm/s ]	8	mm/s
预热温度 [ °C ]	60	°C
模具温度 [ °C ]	60	°C
注塑压力 [ MPa ]	180	MPa
冷却时间 [ s ]	60	s
脱模温度 [ °C ]	60	°C
注塑机型号	OMNI 200	OMNI
注塑机速率	10	mm/s
干燥箱温度 [ °C ]	50	°C
干燥时间 [ h ]	24	h
干燥频率	1	1
干燥重量 [ g ]	100	g
干燥次数	1	1
干燥间隔 [ h ]	12	h

1. 射出温度：260°C；保压时间：10s；射出速度：8mm/s；预热温度：60°C；模具温度：60°C；注塑压力：180MPa；冷却时间：60s；脱模温度：60°C；注塑机型号：OMNI 200；注塑机速率：10mm/s；干燥箱温度：50°C；干燥时间：24h；干燥频率：1次；干燥重量：100g；干燥次数：1次；干燥间隔：12h。