

EXCELLOY CK50

Polycarbonate + ABS

Techno Polymer Co, Ltd.

Message:

EXCELLOY CK50 is a polycarbonate acrylonitrile butadiene styrene (PC ABS) product. It can be processed by injection molding and is available in North America or Asia Pacific.
Features include:
flame retardant/rated flame
Heat resistance

General Information			
UL YellowCard	E54297-244370		
Features	Heat resistance, high		
UL File Number	E54297		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (240°C/10.0 kg)	9.5	g/10 min	ISO 1133
Molding Shrinkage	0.40 - 0.70	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	111		ASTM D785
R scale	108		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	53.9	MPa	ASTM D638
Yield	52.0	MPa	ISO 527-2
Flexural Modulus			
--	2110	MPa	ASTM D790
--	1700	MPa	ISO 178
Flexural Strength			
--	75.5	MPa	ASTM D790
--	69.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	53	kJ/m ²	ISO 179
Notched Izod Impact	590	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	123	°C	ASTM D648
0.45 MPa, not annealed	107	°C	ISO 75-2/B
Flammability	Nominal Value		Test Method

Flame Rating (ALL)	HB	UL 94
Injection	Nominal Value	Unit
Drying Temperature	100 - 110	°C
Drying Time	2.0 - 5.0	hr
Rear Temperature	220 - 270	°C
Middle Temperature	220 - 270	°C
Front Temperature	220 - 270	°C
Mold Temperature	50.0 - 100	°C

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

