

CYCOLOY* C2100HF Resin

Acrylonitrile Butadiene Styrene + PC

SABIC Innovative Plastics Europe

Product Description

CYCOLOY C2100HF is a flame retardant blend with improved flow, specially developed to meet the stringent requirements of mains current carrying applications.

General

Material Status	• Commercial: Active
Availability	• Europe
Additive	• Flame Retardant
Features	• Flame Retardant • Good Flow
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	18.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Water Absorption			ISO 62
Saturation, 23°C	0.60	%	
Equilibrium, 23°C, 50% RH	0.20	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ISO 527-2/1
Tensile Stress			
Yield	55.0	MPa	ISO 527-2/5
Yield	60.0	MPa	ISO 527-2/50
Break	45.0	MPa	ISO 527-2/5
Break	50.0	MPa	ISO 527-2/50
Tensile Strain			
Yield	5.0	%	ISO 527-2/5 ISO 527-2/50
Break	65	%	ISO 527-2/5
Break	> 50	%	ISO 527-2/50
Flexural Modulus ²	2450	MPa	ISO 178
Flexural Strength ^{2, 3}	91.0	MPa	ISO 178
Taber Abrasion Resistance			ASTM D1044
1000 Cycles, 1000 g, CS-17 Wheel	62.0	mg	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁴			ISO 179/1eA
-30°C	20	kJ/m ²	
23°C	50	kJ/m ²	
Notched Izod Impact Strength ⁵			ISO 180/1A
-30°C	20.0	kJ/m ²	
23°C	50.0	kJ/m ²	

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	123		ISO 2039-2
Ball Indentation Hardness (H 358/30)	104	MPa	ISO 2039-1

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

备注：以上原料物性数据由厂家发布, 我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

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Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 mm/min

³ Yield

⁴ 80*10*3 sp=62mm

⁵ 80*10*3

⁶ 120*10*4 mm

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