



## CYCOLOY\* Resin C2950HF

### Asia Pacific: COMMERCIAL

Non-chlorinated and non-brominated flame retardant PC/ABS offering balanced impact and heat properties plus improved flow for various applications.

TYPICAL PROPERTIES <sup>1</sup>	TYPICAL VALUE	UNIT	STANDARD
<b>MECHANICAL</b>			
Tensile Stress, yield	59	MPa	SABIC - Japan Method
Tensile Strain, break	157 - 157	%	SABIC - Japan Method
Flexural Stress	90	MPa	ASTM D 790
Flexural Modulus	2350	MPa	ASTM D 790
<b>IMPACT</b>			
Izod Impact, notched, 23°C	580	J/m	ASTM D 256
<b>THERMAL</b>			
HDT, 0.45 MPa, 3.2 mm, unannealed	95	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	95	°C	ASTM D 648
CTE, -30°C to 30°C	6.E-05 - 8.E-05	1/°C	TMA
<b>PHYSICAL</b>			
Specific Gravity	1.18	-	ASTM D 792
Water Absorption, 24 hours	0.2	%	ASTM D 570
Mold Shrinkage, flow, 3.2 mm (5)	0.4 - 0.6	%	SABIC Method
<b>FLAME CHARACTERISTICS</b>			
UL Recognized, 94V-2 Flame Class Rating (3)	0.75	mm	UL 94
UL Recognized, 94V-0 Flame Class Rating (3)	1.5	mm	UL 94
UL Recognized, 94-5VA Rating (3)	3.4	mm	UL 94
UL Recognized, 94-5VB Rating (3)	2.5	mm	UL 94

1) Typical values only. Variations within normal tolerances are possible for various colours. All values are measured at least after 48 hours storage at 230C/50% relative humidity.  
All properties, except 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 by this or any other material under actual fire conditions.  
4) Own 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.  
6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source, GMD, Last Update: 03/27/2014

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