

**CYCOLOY™ FR Resin C2805**

(PC+ABS+PTFE)

Saudi Basic Industries Corporation (SABIC)

**Product Texts**

CYCOLOY C2805 compound is based on Polycarbonate / Acrylonitrile Butadiene Styrene (PC/ABS) blend containing 5% PTFE. Added features of this grade include: Wear Resistant and Flame Retardant suitable for moving components in business equipment. Medium heat performance.

UL Yellow Card Link [E121562-100900880](https://www.ul.com/yellowcard/E121562-100900880)

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Tensile Strength at Yield	<b>62</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>51</b>	MPa	ASTM D 638
Elongation at Break	<b>110</b>	%	ASTM D 638
Izod Impact notched, 1/8 in	<b>133</b>	J/m	ASTM D 256

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Burning behav. at 1.5 mm nom. thickn. Thickness tested	<b>V-0</b> <b>1.5</b>	class mm	IEC 60695-11-10 -
Burning behav. 5V at thickness h Thickness tested	<b>5VB</b> <b>2.5</b>	class mm	IEC 60695-11-20 -

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1220</b>	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>75 - 80</b>	°C	-
Pre-drying - Time	<b>3 - 4</b>	h	-
Processing humidity	<b>≤0.04</b>	%	-
Melt temperature	<b>230 - 275</b>	°C	-
Mold temperature	<b>50 - 70</b>	°C	-
Zone 1	<b>210 - 255</b>	°C	-
Zone 2	<b>215 - 260</b>	°C	-
Zone 3	<b>225 - 275</b>	°C	-
Screw speed	<b>40 - 70</b>	rpm	-
Back pressure	<b>0.3 - 0.7</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Applications**

Automotive

**Special Characteristics**

Flame retardant

**Regional Availability**

North America, Europe, Asia Pacific