

CYCOLOY™ FR Resin RCM6134 - Asia

(PC+ABS)

Saudi Basic Industries Corporation (SABIC)

Product Texts

CYCOLOY RCM6134 resin is an injection moldable filled PC/ABS blend with non-brominated and non-chlorinated flame retardant. It contains 35% post consumer recycle content with a UL-94 V0 rating @ 1.0mm. Developed for thin wall applications that require high flow and high stiffness performance. Limited availability and restricted color only.

UL Yellow Card Link [F207780-100874261](https://www.ul.com/yellow-card/F207780-100874261)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	11	g/10min	ASTM D 1238
Temperature	260	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3100	MPa	ISO 527
Yield stress	56	MPa	ISO 527
Yield strain	3.4	%	ISO 527
Stress at break	48	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	3100	MPa	ISO 178
Charpy notched impact strength, +23°C	11	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C, 3mm	20	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	3100	MPa	ASTM D 638
Tensile Strength at Yield	54	MPa	ASTM D 638
Tensile Strength at Break	44	MPa	ASTM D 638
Elongation at Yield	3.5	%	ASTM D 638
Elongation at Break	70	%	ASTM D 638
Flexural Modulus	3100	MPa	ASTM D 790
Izod Impact notched, 1/8 in	300	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	81	°C	ISO 75-1/-2
Burning behav. at thickness h	V-1	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
ASTM Data			
DTUL @ 66 psi	88	°C	ASTM D 648
DTUL @ 264 psi	80	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1220	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.04	%	-
Melt temperature	245 - 275	°C	-
Mold temperature	60 - 80	°C	-
Zone 1	220 - 255	°C	-
Zone 2	220 - 265	°C	-
Zone 3	245 - 275	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Additives

Flame retarding agent

Special Characteristics

Flame retardant

Certifications

Recycled Resin Content

Regional Availability

Asia Pacific