

Product Texts

Cycology* RCX7233 (experimental grade name EXCY0355) resin is an injection moldable impact modified PC blend with non-brominated and non-chlorinated flame retardant. It contains 30% post consumer recycle content with a UL-94 V0 rating @ 0.75 mm for all color. Developed for applications require excellent flow and impact balance with thin wall flame resistance. Limited availability and restricted color only.

UL Yellow Card Link [E207780-101883169](https://www.ul.com/yellow-card/E207780-101883169)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	19	g/10min	ASTM D 1238
Temperature	260	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Izod notched impact strength, +23°C, 3mm	50	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2500	MPa	ASTM D 638
Tensile Strength at Yield	60	MPa	ASTM D 638
Tensile Strength at Break	55	MPa	ASTM D 638
Elongation at Yield	4	%	ASTM D 638
Elongation at Break	60	%	ASTM D 638
Flexural Modulus	2400	MPa	ASTM D 790
Izod Impact notched, 1/8 in	690	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	130	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	0.4	mm	-
ASTM Data			
DTUL @ 264 psi	87	°C	ASTM D 648
Vicat Temperature	107	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	0.15	%	Sim. to ISO 62
Density	1190	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	250 - 300	°C	-
Mold temperature	60 - 85	°C	-
Feed temperature	60 - 80	°C	-
Zone 1	230 - 280	°C	-
Zone 2	240 - 290	°C	-
Zone 3	250 - 300	°C	-

Characteristics**Processing**

Injection Molding

Certifications

Recycled Resin Content

Additives

Flame retarding agent

Regional Availability

Asia Pacific

Special Characteristics

Flame retardant, High impact or impact modified