CYCOLOY™ C2800 resin

Polycarbonate + ABS

SABIC Innovative Plastics

Message:

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

General Information			
UL YellowCard	E45587-236934	E207780-228468	
Additive	Flame retardancy		
Features	Chlorine Free Impact resistance, good Good liquidity Bromine-free Flame retardancy		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			ASTM D792
--	1.17	g/cm³	ASTM D792
-- [1]	1.18	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/2.16 kg)	16	g/10 min	ASTM D1238
Molding Shrinkage			Internal method
Flow: 3.20mm	0.40 - 0.60	%	Internal method
Transverse flow: 3.20mm	0.40 - 0.60	%	Internal method
Water Absorption			ASTM D570
24 hr	0.10	%	ASTM D570
Equilibrium, 23°C	0.40	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [2]	2690	MPa	ASTM D638
Tensile Strength [3] (Yield)	58.6	MPa	ASTM D638
Tensile Elongation [4]			ASTM D638
Yield	5.0	%	ASTM D638
Fracture	50	%	ASTM D638
Flexural Modulus [5] (100 mm Span)	2690	MPa	ASTM D790
Flexural Strength [6] (Yield, 100 mm Span)	96.5	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	430	J/m	ASTM D256

Instrumented Dart Impact (23°C, Total Energy)	58.3	J	ASTM D3763
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
1.8 MPa, unannealed, 3.20mm	73.9	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	80.0	°C	ASTM D648
Vicat Softening Temperature	90.6	°C	ASTM D1525 [7]
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 60°C	7.2E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 60°C	7.2E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.20	W/m/K	ASTM C177
RTI Elec	80.0	°C	UL 746
RTI Imp	70.0	°C	UL 746
RTI	80.0	°C	UL 746
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+14	ohms	ASTM D257
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
Dielectric Strength (3.20 mm, in Oil)	18	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
50 Hz	3.00		ASTM D150
60 Hz	3.00		ASTM D150
100 Hz	3.00		ASTM D150
Dissipation Factor			ASTM D150
50 Hz	4.8E-3		ASTM D150
60 Hz	4.8E-3		ASTM D150
Arc Resistance [8]	PLC 6		ASTM D495
Comparative Tracking Index (CTI)	PLC 1		UL 746
High Amp Arc Ignition (HAI)	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 3		UL 746
Hot-wire Ignition (HWI)	PLC 3		UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.889 mm	V-2		UL 94
1.47 mm	V-0		UL 94
2.31 mm	5VB		UL 94
Oxygen Index	35	%	ASTM D2863
Injection	**Nominal Value**	**Unit**	
Drying Temperature	77.0 - 82.0	°C	
Drying Time	3.0 - 4.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Max Moisture	0.040	%	
Suggested Shot Size	30 - 80	%	

Rear Temperature	210 - 254	°C
Middle Temperature	216 - 260	°C
Front Temperature	227 - 274	°C
Nozzle Temperature	232 - 274	°C
Processing (Melt) Temp	232 - 274	°C
Mold Temperature	49.0 - 71.0	°C
Back Pressure	0.345 - 0.689	MPa
Screw Speed	40 - 70	rpm
Vent Depth	0.038 - 0.076	mm

NOTE	
1.	Color
2.	50 mm/min
3.	Type 1, 50mm/min
4.	Type 1, 50mm/min
5.	2.6 mm/min
6.	2.6 mm/min
7.	标准 B (120°C/h), 载荷2 (50N)
8.	Tungsten electrode

Recommended distributors for this material

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