CYCOLOY™ XCY620S resin

Polycarbonate + ABS

SABIC Innovative Plastics

Message:

PC+ ABS Automotive applications

General Information			
Uses	Application in Automobile Field		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.14	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	23	g/10 min	ASTM D1238
Molding Shrinkage			Internal method
Flow: 3.20mm	0.50 - 0.70	%	Internal method
Transverse flow: 3.20mm	0.50 - 0.70	%	Internal method
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield)	60.0	MPa	ASTM D638
Tensile Elongation [2] (Break)	100	%	ASTM D638
Flexural Modulus [3] (50.0 mm Span)	2300	MPa	ASTM D790
Flexural Strength [4] (Yield, 50.0 mm Span)	86.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [5]			ISO 179/1eA
-30°C	45	kJ/m²	ISO 179/1eA
23°C	60	kJ/m²	ISO 179/1eA
Notched Izod Impact (23°C)	680	J/m	ASTM D256
Instrumented Dart Impact			ASTM D3763
-30°C, Total Energy	65.0	J	ASTM D3763
23°C, Total Energy	55.0	J	ASTM D3763
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.20mm	128	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	108	°C	ASTM D648
Vicat Softening Temperature			
--	129	°C	ASTM D1525 [6]
--	130	°C	ISO 306/B120
Ball Pressure Test			IEC 60695-10-2
75°C	Pass		IEC 60695-10-2
100°C [7]	Pass		IEC 60695-10-2
Linear thermal expansion coefficient			ASTM E831

Flow: -40 to 40°C	7.0E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	7.0E-5	cm/cm/°C	ASTM E831
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+16	ohms	IEC 60093
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093
Dielectric Strength			IEC 60243-1
0.800mm, in oil	39	kV/mm	IEC 60243-1
1.60mm, in oil	25	kV/mm	IEC 60243-1
3.20mm, in oil	17	kV/mm	IEC 60243-1
Injection	**Nominal Value**	**Unit**	
Drying Temperature	95.0 - 105	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	60.0 - 80.0	°C	
Rear Temperature	230 - 260	°C	
Middle Temperature	250 - 290	°C	
Front Temperature	250 - 290	°C	
Nozzle Temperature	240 - 280	°C	
Processing (Melt) Temp	260 - 290	°C	
Mold Temperature	60.0 - 90.0	°C	
NOTE			
1.	Type 1, 5.0 mm/min		
2.	Type 1, 5.0 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		
5.	80*10*4 sp=62mm		
6.	标准 B (120°C/h), 载荷2 (50N)		
7.	Approximate maximum		

Recommended distributors for this material

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