

CADON ABS CG 28

High rubber content ABS copolymer with very high toughness and medium flow. Excellent impact and fracture resistance even at very low temperatures

Typical properties

Property	Test Condition	Standard	Unit	Value	Unit	Value
		SI Metrics		rics	US Conventional	
Rheological properties						
Melt volume-flow rate	220 °C, 10kg	ISO 1133	cm ³ /10min	14		
Melt flow rate	230 °C, 3.8kg	ASTM D1238			g/10min	4
Mechanical properties (23°C /50%)						
Yield stress	50 mm/min	ISO 527-1,2	MPa	35		
	5 mm/min	ASTM D 638	MPa	32	psi	4600
Elongation at break	50 mm/min	ISO 527-1,2	%	>5		
	5 mm/min	ASTM D 638			%	>5
Tensile modulus	1 mm/min	ISO 527-1,2	MPa	1600		
	5 mm/min	ASTM D 638			psi	232000
Flexural modulus	2 mm/min	ISO 178	MPa	1720		
	1.3 mm/min	ASTM D 790			psi	249000
Izod notched impact strength	23 °C (73°F)	ISO 180-1A	kJ/m ²	28	ft-lb/in ²	13.4
	-30 °C (-22°F)	ISO 180-1A	kJ/m ²	21	ft-lb/in ²	10.0
	73ºF (23ºC)	ASTM D 256 (3.2mm) 1/8"	J/m	365	ft-lb/in	6.8
	73ºF (23ºC)	ASTM D 256 (6.4mm) 1/4"	J/m	270	ft-lb/in	5.1
	-22°F (-30°C)	ASTM D 256 (3.2mm) 1/8"	J/m	190	ft-lb/in	3.6
Ball indentation hardness		ISO 2039-1	N/mm ²	72		
Thermal properties						
Vicat softening temperature	B50;50°C/h	ISO 306	°C	93		
	50N;50ºC/h	ASTM D 1525			٩	199
Burning behavior UL 94	1.6 mm	UL 94	Class	HB		
Burning rate (US-FMVSS)	250x105x2mm	ISO 3795	mm/min	60	in/min	2.4
Glow wire test (GWFI)	2.0 mm	IEC 60695-2-12	°C	700		
Other properties (23°C)						
Density	25°C	ISO 1183-1	g/cm ³	1.02	lb/in ³	0.0368
Yellow Index YI		E313		31		
Residual monomers		Lab - CG	%	0.03		
Butadiene content		Lab - IR	%	27		
Processing conditions for test spe	cimens	1				
Injection molding-melt temperature		ISO 294	°C	240	٥F	464
Injection molding-mold temperature	1	ISO 294	°C	70	٥F	158
Injection molding-injection velocity	1	ISO 294	mm/s	240	in/s	9.5

*(annealed 4h/80°C; 4h/176°F)

Note: control measurements in other places may issue different results due to influences of machinery, equipment, test method or storage conditions.



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Test values

Unless specified to the contrary, the values given have been established on standardised test specimens at room temperature. The figures should be regarded as guide values only and not as binding minimum values. Kindly note that, under certain conditions, the properties can be affected to a considerable extent by the design of the mould/die, the processing conditions and the colouring.

Processing note

Under the recommended processing conditions small quantities of decomposition product may be given off during processing. To preclude any risk to the health and well-being of the machine operatives, tolerance limits for the work environment must be ensured by the provision of efficient exhaust ventilation and fresh air at the workplace in accordance with the Safety Data Sheet. In order to prevent the partial decomposition of the polymer and the generation of volatile decomposition products, the prescribed processing temperatures should not be substantially exceeded. Since excessively high temperatures are generally the result of operator error or defects in the heating system, special care and controls are essential in these areas.

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