

CADON ABS IM 30

General purpose injection molding ABS grade with good flow characteristic and good low-temperature toughness

Property	Test Condition	Unit	Standard	Value
Rheological properties				
Melt volume-flow rate	220°C, 10 Kg	cm ³ /10 min	ISO 1133	25
Mechanical properties (23°C /50% H.R.)				
Yield stress	50 mm/min	MPa	ISO 527-1,2	43
Elongation at break	50 m/min	%	ISO 527-1,2	>5
Tensile modulus	1 mm/min	MPa	ISO 527-1,2	2100
Flexural modulus	2 mm/min	MPa	ISO 178	2310
Izod notched impact strength	23 °C	KJ/m ²	ISO 180-1A	21
Izod notched impact strength	-30 °C	KJ/m ²	ISO 180-1A	13
Ball Indentation Hardness		N/mm ²	ISO 2039-1	84
Thermal properties				
Vicat softening temperature	B50, 50 °C/h	°C	ISO 306	96
Burning behavior UL 94	1.6 mm	Class	UL 94	HB
Burning rate (US-FMVSS)	150x105x1 mm	mm/min	ISO 3795	60
Glow wire test (GWFI)	2.0 mm	°C	IEC 60695-2-12	700
Other properties (23°C)				
Density	25°C	Kg/m ³	ISO 1183-1	1.03
Yellow Index YI			E313	34
Residual monomers		%	Lab - CG	0.02
Processing conditions for test specimens				
Injection molding-melt temperature	240	°C	ISO 294	
Injection molding-mold temperature	70	°C	ISO 294	
Injection molding-injection velocity	240	mm/s	ISO 294	

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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Edition 15.01.14

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