Celanese
The chemistry inside innovation™

CELANYL® A2 J05 M30 BK 9005/R/UV

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Car industry, Household appliances, Electrical devices.

Product information

Resin Identification	PA66-I-MD30		ISO 1043
Part Marking Code	>PA66-I-MD30<		ISO 11469
Continuous Service Temperature	100	°C	IEC 60216-1

Rheological properties

	dry/cond.		
Moulding shrinkage, parallel	1.0 / -	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.1 / -	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	6200 / -	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	75 / -	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.4 / -	%	ISO 527-1/-2
Flexural modulus	5800 / -	MPa	ISO 178
Flexural strength	120 / -	MPa	ISO 178
Charpy impact strength, 23°C	33 / -	kJ/m²	ISO 179/1eU
Izod notched impact strength, 23°C	3.2 / -	kJ/m²	ISO 180/1A
Poisson's ratio	0.35 / -[C]		

[C]: Calculated

Thermal properties

	dry/cond.		
Temperature of deflection under load, 1.8 MPa	95 / *	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	225 / *	°C	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	IEC 60695-11-10

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.8 / *	%	Sim. to ISO 62
Water absorption, 2mm	6.2 / *	%	Sim. to ISO 62
Density	1340 / -	kg/m³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	80	°C
Drying Time, Dehumidified Dryer	2 - 4	h
Processing Moisture Content	≤0.15	%
Melt Temperature Optimum	295	°C
Min. melt temperature	285	°C
Max. melt temperature	305	°C
Screw tangential speed	≤0.2	m/s
Mold Temperature Optimum	100	°C
Min. mould temperature	70	°C

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Max. mould temperature	120 °C

Characteristics

Processing	Injection Moulding
Additives	Mineral Filler
Special characteristics	High impact or impact modified, U.V. stabilised or stable to weather, Heat stabilised or stable to heat, High Flow, Low Warpage

Revised: 2024-08-16 Source: Celanese Materials Database