Celanese
The chemistry inside innovation™

CELANYL® A3 HH J10 GF13 BK 9005/E

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Car industry, Household appliances, Electrical devices.

Product information

Resin Identification	PA66-I-GF13		ISO 1043
Part Marking Code	>PA66-I-GF13<		ISO 11469
Continuous Service Temperature	130	°C	IEC 60216-1

Rheological properties

	dry/cond.		
Moulding shrinkage, parallel	0.6 / -	%	ISO 294-4, 2577
Moulding shrinkage range, parallel	0.4 - 0.7	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.8 / -	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.7 - 1	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	4800 / 3200	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	100 / 65	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	4.5 / 10	%	ISO 527-1/-2
Flexural modulus	4000 / -	MPa	ISO 178
Flexural strength	160 / -	MPa	ISO 178
Charpy impact strength, 23°C	65 / >60	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	10 / 15	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	9 / -	kJ/m²	ISO 180/1A
Izod impact strength, 23°C	>50 / -	kJ/m²	ISO 180/1U
Poisson's ratio	0.36 / 0.37[C]		

[C]: Calculated

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	265 / *	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	238 / *	°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
Glow Wire Flammability Index, 0.75mm	650 / -	°C	IEC 60695-2-12
Glow Wire Flammability Index, 3.0mm	650 / -	°C	IEC 60695-2-12

Electrical properties

	dry/cond.		
Comparative tracking index	500 / -		IEC 60112

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.7 / *	%	Sim. to ISO 62
Water absorption, 2mm	6.2 / *	%	Sim. to ISO 62
Density	1200 / -	kg/m³	ISO 1183

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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
Max. mould temperature	120	°C
Ejection temperature	209	°C

Characteristics

Processing	Injection Moulding
Delivery form	Granules
Special characteristics	High impact or impact modified, Heat stabilised or stable to heat, Specialty appearance, High Flow

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