CELANYL® A2 J05 M30 BK 9005/R/UV

CELANYL®

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	212	°F	IEC 60216-1

Rheological properties

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

Typical mechanical properties

	dry/cond.		
Tensile modulus	899000 / -	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	10900 / -	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.4 / -	%	ISO 527-1/-2
Flexural modulus	841000 / -	psi	ISO 178
Flexural strength	18100 / -	psi	ISO 178
Charpy impact strength, 23°C	15.7 / -	ftlb/in²	ISO 179/1eU
Izod notched impact strength, 23°C	1.52 / -	ftlb/in²	ISO 180/1A

Thermal properties

	dry/cond.		
Temperature of deflection under load, 1.8 MPa	203 / *	°F	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	437 / *	°F	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.0315 / *	in	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	0.0484 / -	lb/in³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	176	°F
Drying Time, Dehumidified Dryer	2 - 4	h
Processing Moisture Content	≤0.15	%
Melt Temperature Optimum	563	°F
Min. melt temperature	545	°F
Max. melt temperature	581	°F
Max. screw tangential speed	≤0.2	m/s
Mold Temperature Optimum	212	°F
Min. mold temperature	158	°F
Max. mold temperature	248	°F

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Characteristics

Processing	Injection Molding
Special characteristics	High impact or impact modified, U.V. stabilized or stable to weather, Heat stabilized or stable to heat, High Flow, Low Warpage

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