CELANYL® B3 D10 BK 9005

CELANYL®

Designed for Automotive Industry, suitable for any other technical application requiring good flexibility and toughness.

Product information

Resin Identification	PA6-I	ISO 1043
Part Marking Code	>PA6-I<	ISO 11469

Rheological properties

Molding shrinkage range, parallel	1.6 - 2 %	ISO 294-4, 2577
Molding shrinkage range, normal	1.6 - 2 %	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	348000 / -	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	9400 / -	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	10 / -	%	ISO 527-1/-2
Tensile strain at break, 50mm/min	20 / -	%	ISO 527-1/-2
Flexural strength	13100 / -	psi	ISO 178
Charpy impact strength, 23°C	>80 / -	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	4.28 / -	ftlb/in²	ISO 179/1eA

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	437 / *	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	140 / *	°F	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	320 / *	°F	ISO 75-1/-2

Flammability

	dry/cond.		
Thickness tested	0.0630 / *	in	IEC 60695-11-10

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2.1 / *	%	Sim. to ISO 62
Water absorption, 2mm	7.5 / *	%	Sim. to ISO 62
Density	0.0393 / -	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	500	°F
Min. melt temperature	464	°F
Max. melt temperature	518	°F
Max. screw tangential speed	≤0.25	m/s
Mold Temperature Optimum	158	°F
Min. mold temperature	122	°F
Max. mold temperature	194	°F

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

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Automotive

OEM	ADDITIONAL INFORMATION
Renault	UB15, No Spec, Special Part Approval, See Your CE Account Manager.

Characteristics

Processing	Injection Molding
Additives	Nucleated
Special characteristics	High impact or impact modified, Heat stabilized or stable to heat

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