CELANYL® A2 HHR J16 BK 9005/UV/2

CELANYL®

Designed for Automotive Industry, suitable for all those applications that require excellent mechanical performance, long term heat ageing and UV resistance.

Product information

Resin Identification	PA66-I	ISO 1043
Part Marking Code	>PA66-I<	ISO 11469

Rheological properties

Molding shrinkage range, parallel	1.3 - 1.8	%	ISO 294-4, 2577
Molding shrinkage range, normal	1.3 - 1.8	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	305000 / -	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	8000 / -	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	9 / -	%	ISO 527-1/-2
Tensile stress at break, 50mm/min	6530 / -	psi	ISO 527-1/-2
Tensile strain at break, 50mm/min	45 / -	%	ISO 527-1/-2
Flexural modulus	276000 / -	psi	ISO 178
Charpy impact strength, 23°C	>60 / -	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	11.9 / -	ftlb/in²	ISO 179/1eA
Izod notched impact strength, 23°C	9.99 / -	ftlb/in²	ISO 180/1A
Izod notched impact strength, -30°C	5.23 / -	ftlb/in²	ISO 180/1A

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	509 / *	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	122 / *	°F	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	HB / *	class	IEC 60695-11-10

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.9 / *	%	Sim. to ISO 62
Water absorption, 2mm	6.8 / *	%	Sim. to ISO 62
Density	0.039 / -	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	554	°F
Min. melt temperature	536	°F
Max. melt temperature	572	°F
Max. screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	176	°F
Min. mold temperature	122	°F

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

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Max. mold temperature	212 °F	

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Renault	UB15, No Spec, Special Part Approval, See Your CE Account Manager.	
Stellantis	B62 0300 / 61/31/U4/AD1/W1/219E/13/C1	01378_15_02001

Characteristics

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

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