Celanese
The chemistry inside innovation™

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

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

Typical mechanical properties

	dry/cond.		
Tensile modulus	2100 / -	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	55 / -	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	9 / -	%	ISO 527-1/-2
Tensile stress at break, 50mm/min	45 / -	MPa	ISO 527-1/-2
Tensile strain at break, 50mm/min	45 / -	%	ISO 527-1/-2
Flexural modulus	1900 / -	MPa	ISO 178
Charpy impact strength, 23°C	>60 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	25 / -	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	21 / -	kJ/m²	ISO 180/1A
Izod notched impact strength, -30°C	11.0 / -	kJ/m²	ISO 180/1A
Poisson's ratio	0.4 / -[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	50 / *	°C	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	1080 / -	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	290	°C
Min. melt temperature	280	°C
Max. melt temperature	300	°C
Screw tangential speed	≤0.3	m/s

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Mold Temperature Optimum	80	°C
Min. mould temperature	50	°C
Max. mould temperature	100	°C

Characteristics

Processing	Injection Moulding
Delivery form	Granules
Special characteristics	High impact or impact modified, U.V. stabilised or stable to weather, Heat stabilised or stable to heat, Hydrolysis resistant, High Flow

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

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