

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/m ² | ISO 179/1eU |
| Charpy notched impact strength, 23°C | 25/- | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength, 23°C | 21/- | kJ/m ² | ISO 180/1A |
| Izod notched impact strength, -30°C | 11.0/- | kJ/m ² | 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/m ³ | 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 |