

# Radilon® AGV HW 30 Black E

Polyamide 66

Radici Plastics

## Message:

Radilon® AGV HW 30 Black E is a Polyamide 66 (Nylon 66) material filled with 30% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Important attributes of Radilon® AGV HW 30 Black E are:

Flame Rated

Heat Resistant

Typical application of Radilon® AGV HW 30 Black E: Automotive

| General Information                                                   |            |                                                    |                   |                |
|-----------------------------------------------------------------------|------------|----------------------------------------------------|-------------------|----------------|
| Filler / Reinforcement                                                |            | Glass Fiber,30% Filler by Weight                   |                   |                |
| Features                                                              |            | Good Heat Aging Resistance<br>High Heat Resistance |                   |                |
| Appearance                                                            |            | Black                                              |                   |                |
| Resin ID (ISO 1043)                                                   |            | PA6.6-GF30                                         |                   |                |
| Physical                                                              | Dry        | Conditioned                                        | Unit              | Test Method    |
| Density                                                               | 1.36       | --                                                 | g/cm <sup>3</sup> | ISO 1183       |
| Water Absorption <sup>1</sup><br>(Equilibrium, 23°C, 1.00 mm, 50% RH) | 1.5 to 1.9 | --                                                 | %                 | ISO 62         |
| Mechanical                                                            | Dry        | Conditioned                                        | Unit              | Test Method    |
| Tensile Modulus                                                       | 10000      | 7000                                               | MPa               | ISO 527-2/1A/1 |
| Tensile Stress (Yield)                                                | 180        | 125                                                | MPa               | ISO 527-2/1A/5 |
| Tensile Strain (Break)                                                | 3.0        | 5.0                                                | %                 | ISO 527-2/1A/5 |
| Flexural Modulus <sup>2</sup>                                         | 8800       | 6800                                               | MPa               | ISO 178        |
| Flexural Stress <sup>3</sup>                                          | 275        | 215                                                | MPa               | ISO 178        |
| Impact                                                                | Dry        | Conditioned                                        | Unit              | Test Method    |
| Charpy Notched Impact Strength (23°C)                                 | 9.0        | 13                                                 | kJ/m <sup>2</sup> | ISO 179/1eA    |
| Charpy Unnotched Impact Strength                                      |            |                                                    |                   | ISO 179/1eU    |
| -30°C                                                                 | 60         | --                                                 | kJ/m <sup>2</sup> |                |
| 23°C                                                                  | 75         | 90                                                 | kJ/m <sup>2</sup> |                |
| Thermal                                                               | Dry        | Conditioned                                        | Unit              | Test Method    |
| Heat Deflection Temperature                                           |            |                                                    |                   |                |
| 0.45 MPa, Unannealed                                                  | 250        | --                                                 | °C                | ISO 75-2/B     |
| 1.8 MPa, Unannealed                                                   | 250        | --                                                 | °C                | ISO 75-2/A     |
| Melting Temperature <sup>4</sup>                                      | 260        | --                                                 | °C                | ISO 3146       |
| Flammability                                                          | Dry        | Conditioned                                        |                   | Test Method    |

|              |            |    |       |
|--------------|------------|----|-------|
| Flame Rating | HB         | -- | UL 94 |
| NOTE         |            |    |       |
| 1.           | Saturation |    |       |
| 2.           | 2.0 mm/min |    |       |
| 3.           | 2.0 mm/min |    |       |
| 4.           | 10°C/min   |    |       |

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## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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