

**【Inquiries】**

AsahiKASEI Engineering Plastics Information Comprehensive Site  
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# AsahiKASEI



## LEONA™ 14G35 \*33E1

Asahi Kasei Corporation - Polyamide 66

Wednesday, March 20, 2024

### General Information

#### General

|                                          |                                                          |                                                            |                                          |
|------------------------------------------|----------------------------------------------------------|------------------------------------------------------------|------------------------------------------|
| Material Status                          | • Commercial: Active <sup>1</sup>                        |                                                            |                                          |
| Availability                             | • Africa & Middle East<br>• Asia Pacific                 | • Europe<br>• North America                                |                                          |
| Filler / Reinforcement                   | • Glass Fiber, 35% Filler by Weight                      |                                                            |                                          |
| Additive                                 | • Heat Stabilizer                                        |                                                            |                                          |
| Features AKEP website                    | • Heat Stabilized                                        |                                                            |                                          |
| Uses                                     | • Automotive Applications<br>• Automotive Under the Hood | • Electrical/Electronic Applications<br>• Structural Parts |                                          |
| Automotive Specifications                | • CHRYSLER MS-DB-41 CPN<br>1900 Color: Black             | • GM GMW3038P-PA66-GF35H<br>Color: Black                   | • GM GMW3038P-PA66-GF35J<br>Color: Black |
| Part Marking Code (ISO11469) (ISO 11469) | • >PA66-GF35<                                            |                                                            |                                          |

#### Other Documentation

- Literature
- [Moldflow Data](#)
  - [Molding Conditions](#)
  - [SDS](#)
  - [Technical Handbook](#)

### ASTM & ISO Properties <sup>2</sup>

| Physical                         | Dry   | Conditioned | Unit              | Test Method |
|----------------------------------|-------|-------------|-------------------|-------------|
| Density                          | 1.41  | --          | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                |       |             |                   | ISO 294-4   |
| Across Flow                      | 1.0   | --          | %                 |             |
| Flow                             | 0.30  | --          | %                 |             |
| Water Absorption                 |       |             |                   | ISO 62      |
| Equilibrium, 23°C, 50% RH        | --    | 1.7         | %                 |             |
| Mechanical                       | Dry   | Conditioned | Unit              | Test Method |
| Tensile Modulus (23°C)           | 11700 | 8600        | MPa               | ISO 527-1   |
| Tensile Stress (Break, 23°C)     | 210   | 149         | MPa               | ISO 527-2   |
| Tensile Strain (Break, 23°C)     | 3.0   | 5.0         | %                 | ISO 527-2   |
| Flexural Modulus (23°C)          | 11200 | 8600        | MPa               | ISO 178     |
| Flexural Stress (23°C)           | 316   | 235         | MPa               | ISO 178     |
| Impact                           | Dry   | Conditioned | Unit              | Test Method |
| Charpy Notched Impact Strength   | 14    | 17          | kJ/m <sup>2</sup> | ISO 179     |
| Charpy Unnotched Impact Strength | 93    | --          | kJ/m <sup>2</sup> | ISO 179     |

#### Disclaimer:

- Data shown are typical values obtained by proper testing methods and should not be used for specification purpose. Please use these data for selecting the most appropriate grade suitable for specific usage.

These data may be changed because of improvement in properties.

- Be sure to read the relevant SDS before handling and use, and always follow the Important Precautions.

- Do not use plastics in any of the following orally- or medically-related applications.

- Orally-related applications: any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages.

For drinking water application, please consult Asahi Kasei Corporation.

- Medically-related applications: any part, device or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids or transfusion fluids.

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| Thermal                           | Dry    | Conditioned | Unit     | Test Method |
|-----------------------------------|--------|-------------|----------|-------------|
| Deflection Temperature Under Load |        |             |          |             |
| 0.45 MPa, Unannealed              | 261    | --          | °C       | ISO 75-2/B  |
| 1.8 MPa, Unannealed               | 252    | --          | °C       | ISO 75-2/A  |
| CLTE                              |        |             |          | ASTM D696   |
| Flow                              | 2.0E-5 | --          | cm/cm/°C |             |
| Transverse                        | 8.0E-5 | --          | cm/cm/°C |             |
| Electrical                        | Dry    | Conditioned | Unit     | Test Method |
| Dielectric Strength               | 43     | --          | kV/mm    | IEC 60243-1 |
| Comparative Tracking Index        | 500    | --          | V        | IEC 60112   |

#### Processing Information

| Injection                         | Dry        | Unit |
|-----------------------------------|------------|------|
| Drying Temperature - Vacuum Dryer | 80 to 90   | °C   |
| Drying Time - Vacuum Dryer        | 2.0 to 3.0 | hr   |
| Processing (Melt) Temp            | 275 to 295 | °C   |
| Mold Temperature                  | 75 to 85   | °C   |

#### Notes

<sup>1</sup> \* is an optional alphabet which differs depending on production location.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

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