

## Arkema Group Orgalloy® LE 60 HM Polyamide Alloy

Category : Polymer , Thermoplastic , Nylon

### Material Notes:

Polyamide Alloy, Film and Packaging Information provided by Arkema Group

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arkema-Group-Orgalloy-LE-60-HM-Polyamide-Alloy.php](http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-LE-60-HM-Polyamide-Alloy.php)

| Physical Properties                | Metric  | English   | Comments               |
|------------------------------------|---|---|------------------------|
| Density                            | 1.05 g/cc   | 0.0379 lb/in <sup>3</sup>                             | ISO R1183              |
| Water Absorption                   | 0.80 %  | 0.80 %  | 23°C / 24 hrs; ISO 62  |
| Moisture Absorption at Equilibrium | 1.8 %   | 1.8 %   | 23°C / 50% RH; ISO 62  |
|                                    | 6.4 %   | 6.4 %   | in 23°C water; ISO 62  |
| Melt Flow                          | 0.90 g/10 min<br>@Load 2.16 kg,<br>Temperature 235 °C | 0.90 g/10 min<br>@Load 4.76 lb,<br>Temperature 455 °F | after drying; ISO 1133 |

| Mechanical Properties         | Metric  | English   | Comments                                       |
|-------------------------------|---|---|--|
| Tensile Strength, Ultimate    | 54.0 MPa  | 7830 psi  | ISO R527                                       |
| Tensile Strength, Yield       | 39.0 MPa  | 5660 psi  | ISO R527                                       |
| Elongation at Break           | 330 %   | 330 %   | ISO R527                                       |
| Elongation at Yield           | 5.0 %   | 5.0 %   | ISO R527                                       |
| Modulus of Elasticity         | 1.55 GPa  | 225 ksi   | ISO R527                                       |
| Flexural Strength             | 34.0 MPa  | 4930 psi  | After conditioning at 23°C and 50% RH; ISO 178 |
| Flexural Modulus              | 1.20 GPa  | 174 ksi   | After conditioning at 23°C and 50% RH; ISO 178 |
| Charpy Impact, Notched        | 2.80 J/cm <sup>2</sup>                          | 13.3 ft-lb/in <sup>2</sup>                          | After conditioning at 23°C/50%RH; ISO 179/Af   |
|                               | 20.0 J/cm <sup>2</sup><br>@Temperature -20.0 °C | 95.2 ft-lb/in <sup>2</sup><br>@Temperature -4.00 °F | After conditioning at 23°C/50%RH; ISO 179/Af   |
| Tensile Creep Modulus, 1 hour | 1350 MPa  | 196000 psi  | ISO 899-1                                      |

| Thermal Properties | Metric | English | Comments  |
|--------------------|--------|---------|-----------|
| Melting Point      | 220 °C | 428 °F  | ISO R1218 |

| Thermal Properties         | Metric   | English  | Comments   |
|----------------------------|----------|----------|------------|
| Electrical Properties      | Metric   | English  | Comments   |
| Comparative Tracking Index | >= 600 V | >= 600 V | NFC 26 220 |

## Contact Songhan Plastic Technology Co.,Ltd.

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