

## Arkema Group Orgalloy® LT 4060 ES Polyamide Alloy

Category : Polymer , Thermoplastic , Nylon

### Material Notes:

Polyamide Alloy, Blow Molding of Technical Parts Information provided by Arkema Group

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arkema-Group-Orgalloy-LT-4060-ES-Polyamide-Alloy.php](http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-LT-4060-ES-Polyamide-Alloy.php)

| Physical Properties | Metric  | English   | Comments               |
|---------------------|---|---|------------------------|
| Density             | 1.04 g/cc   | 0.0376 lb/in <sup>3</sup>                             | ISO R1183              |
| Water Absorption    | 0.80 %  | 0.80 %  | 23°C / 24 hrs; ISO 62  |
| Melt Flow           | 0.50 g/10 min<br>@Load 5.00 kg,<br>Temperature 235 °C | 0.50 g/10 min<br>@Load 11.0 lb,<br>Temperature 455 °F | after drying; ISO 1133 |

| Mechanical Properties      | Metric                      | English                     | Comments                                       |
|----------------------------|-----------------------------|-----------------------------|--|
| Hardness, Shore D          | 50                          | 50                          | ISO 868  |
| Tensile Strength, Ultimate | 30.0 MPa                    | 4350 psi                    | ISO R527                                       |
| Elongation at Break        | 380 %                       | 380 %                       | ISO R527                                       |
| Modulus of Elasticity      | 0.300 GPa                   | 43.5 ksi                    | ISO R527                                       |
| Flexural Modulus           | 0.200 GPa                   | 29.0 ksi                    | After conditioning at 23°C and 50% RH; ISO 178 |
|                            | 0.500 GPa                   | 72.5 ksi                    | Dry; ISO 178                                   |
| Charpy Impact, Notched     | NB<br>@Temperature -20.0 °C | NB<br>@Temperature -4.00 °F | ISO 179/Af                                     |
|                            | NB<br>@Temperature 23.0 °C  | NB<br>@Temperature 73.4 °F  | ISO 179/Af                                     |

| Thermal Properties                          | Metric  | English | Comments  |
|---|---------|---------|-----------|
| Melting Point                               | 220 °C  | 428 °F  | ISO R1218 |
| Deflection Temperature at 0.46 MPa (66 psi) | 60.0 °C | 140 °F  | ISO R75   |
| Flammability, UL94                          | HB      | HB      |           |

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