



Recalon®Containing Oil Nylon Technical Data Property sheet

| ①raw materials description | | | | |
|--|---|--------------------------|--------------------|-----------------------------------|
| Standard grade: | --- | Appearance color: | Black | |
| Application: | Processing material, plates, strips, tubes,widely used in making gear and parts bad material of anticorrosive equipment in chemical machinery.And used in wear parts, transmission structure, appliance parts, automotive parts, screw to prevent mechanical parts, chemical machinery parts, chemical equipment. | | | |
| Characteristics: | Wear-resistant, self-lubricating in dry operation, excellent mechanical properties, thermal stability, chemical resistance and dimensional stability, low water absorption. | | | |
| ②raw materials technical data | | | | |
| Property item | Test conditions(status) | Test method | Test data | Unit |
| I.Physical properties | | | | |
| Density | 23°C | ASTM D792 | 1.15 | g/cm ³ |
| Shrinkage | --- | ASTM D955 | 1.5~1.8 | % |
| Flammability class | --- | UL94 | Self-extinguishing | --- |
| II .Mechanical properties | | | | |
| Impact strength | 23°C | ASTM D256 | 5.8 | kJ/m ² |
| Tensile strength | --- | ASTM D638 | 70~75 | MPa |
| Elongation modulus | --- | ASTM D638 | 3800 | MPa |
| Elongation at break | --- | ASTM D638 | >25 | % |
| Flexural strength | --- | ASTM D790 | 90-100 | MPa |
| Flexural strength | --- | ASTM D790 | 3000 | MPa |
| Hardness-Shore D | --- | ASTM D2240 | 82-86 | D |
| Wear Resistance | --- | PV=55 | 0.15 | Mg/km |
| Friction coefficient (C-coefficient) | --- | PV=55 | 0.19 | --- |
| III. Thermal properties | | | | |
| Max.continuous use temperature | --- | UL746B | 170 | °C |
| Max.continuous use temperature | --- | UL746B | 105 | °C |
| Min.intermittent use temperature | --- | UL746B | -100 | °C |
| Min.continuous use temperature | --- | UL746B | -40 | °C |
| Melting point | --- | ASTM D2133 | 220 | °C |
| Coefficient of linear thermal expansion | --- | ASTM D696 | 5~8 | ×10 ⁻⁵ K ⁻¹ |
| IV.Electrical properties | | | | |
| Dielectric constant | --- | ASTM D150 | 3.7 | 10 ⁶ Hz |
| Dielectric strength | --- | ASTM D149 | >25 | kV/mm |
| Volume resistivity | --- | ASTM D257 | 10 ¹⁵ | (Ω) * cm |
| Surface resistivity | --- | ASTM D257 | 10 ¹⁵ | (Ω) |

| | | | | |
|---|-----|--------|-----|-----|
| Impedance | --- | TEC112 | 600 | CTI |
| NOTE: 1 g/cm³ = 1,000 kg/m³, 1 Mpa = 1 N/mm², 1kV/mm = 1 MV/m | | | | |
| STATEMENT: | | | | |
| NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Quanda will not provide any legally binding guarantee of certain properties, or any suitability. | | | | |