

Extrusion ABS POLYLAC® PA-709S

Product Description: Super impact Extrusion

| Properties | ISO Test Method | Test Condition | Unit | PA-709S |
|---|-----------------|--------------------|-------------------|------------------------|
| Melt Flow Index | 1133 | 220°C×10KG | ml/10 min | 4 |
| Mass Density | 1183 | 23 °C | g/cm ³ | 1.03 |
| Tensile Strength | 527 | 50 mm/min, yield | MPa | 37 |
| | | 50 mm/min, break | MPa | 29 |
| Tensile Elongation | 527 | 50 mm/min | % | 30 |
| Flexural Strength | 178 | 2 mm/min | MPa | 51 |
| Flexural Modulus | | 2 mm/min | GPa | 1.5 |
| Izod Impact Strength | 180/1A | 23 °C Notched | KJ/m ² | 40 |
| | | -30 °C Notched | KJ/m ² | 28 |
| Charpy Impact Strength | 179 | 23 °C Notched | KJ/m ² | 42 |
| | | -30 °C Notched | KJ/m ² | 30 |
| Vicat Softening Temp. | 306 | 1 Kg,50 °C/hr | °C | 104 |
| | | 5 Kg,50 °C/hr | °C | 98 |
| Heat Distortion Temp. | 75/A | 1.8 MPa Unannealed | °C | 81 |
| | | 1.8 MPa Annealed | °C | 96 |
| Coefficient of Linear Thermal Expansion | 11359 | - | - | 9.5 x 10 ⁻⁵ |
| Flammability | - | UL-94 | - | 1.5mm HB |
| Mold Shrinkage | 294-4 | - | % | 0.4~0.7 |
| Symbol | 1043 | - | - | >ABS< |

January 16, 2017

Notes : These are typical properties only and are not to be construed as specifications. Users should confirm results by their own test

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Extrusion ABS POLYLAC[®] Characteristics PA-709S

| 特性 PROPERTIES | 測試方法 ASTM TEST METHOD | 測試條件 TEST CONDITION | 單位 UNIT | 押出級 EXTRUSION |
|---------------------------------------|-----------------------------|------------------------|------------------------------------|---------------|
| | | | | PA-709S |
| 熔融指數 Melt Flow Index | D1238 | 200 °C, 5 Kg | g/10 min | 0.4 |
| | | 220 °C, 10 Kg | | - |
| 比重 Mass Density | D792 | 23 °C | - | 1.03 |
| 硬度 Hardness | D785 | - | R Scale | 100 |
| 拉伸強度 (屈服) Tensile Strength (Yield) | D638 | 6 mm/min | Kg/cm ² | 370 |
| | | | lb/in ² | 5250 |
| 延伸率 Tensile Elongation | D638 | 6 mm/min | % | 40 |
| 彎曲強度 Flexural Strength | D790 | 2.8 mm/min | Kg/cm ² | 560 |
| | | | lb/in ² | 8000 |
| 彎曲彈性模數 Flexural Modulus | D790 | 2.8 mm/min | 10 ⁴ Kg/cm ² | 2.0 |
| | | | 10 ⁵ lb/in ² | 2.8 |
| IZOD 衝擊強度 Izod Impact Strength | D256 (Notched) | 6.4 mm, 23°C | Kg-cm/cm | 37 |
| | | | ft-lb/in | 6.9 |
| | | 3.2 mm, 23°C | Kg-cm/cm | 44 |
| | | | ft-lb/in | 8.1 |
| 維氏軟化溫度 Vicat Softening Temp. | D1525 | 1 Kg, 50 °C/hr | °C | 106 |
| | | | °F | 223 |
| 熱變形溫度 Heat Distortion Temp. | D648 | 1.8 MPa Annealed | °C | 95 |
| | | | °F | 203 |
| | | 1.8 MPa Unannealed | °C | 85 |
| | | | °F | 186 |
| UL 燃燒等級 UL Flammability | UL 94 | - | - | 1.5 mm HB |

May 2, 2013

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