

# Luran® S KR 2863 C

## Acrylonitrile Styrene Acrylate + PC

### BASF Corporation

| Product Description  |   |  |   |
|--|---|--|---|
| Grade with very high heat resistance for automotive interiors and exteriors as well as electrical parts. Available in Europe only. |   |  |   |
| General  |   |  |   |
| Material Status  | • Commercial: Active                          |  |   |
| Availability   | • Europe                                      |  |   |
| Features   | • High Heat Resistance                        |  |   |
| Uses   | • Automotive Exterior Parts                   | • Automotive Interior Parts                  | • Electrical/Electronic Applications          |
| RoHS Compliance  | • RoHS Compliant                              |  |   |
| Forms  | • Pellets                                     |  |   |
| Processing Method  | • Extrusion                                   | • Injection Molding                          |   |
| Multi-Point Data   | • Creep Modulus vs. Time (ISO 11403-1)        | • Isothermal Stress vs. Strain (ISO 11403-1) | • Shear Modulus vs. Temperature (ISO 11403-2) |
|  | • Isochronous Stress vs. Strain (ISO 11403-1) | • Secant Modulus vs. Strain (ISO 11403-1)    | • Viscosity vs. Shear Rate (ISO 11403-2)      |
| Physical   | Nominal Value                                 | Unit   | Test Method                                   |
| Density  | 1.16  | g/cm <sup>3</sup>                            | ISO 1183                                      |
| Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)   | 18.0  | cm <sup>3</sup> /10min                       | ISO 1133                                      |
| Molding Shrinkage - Flow   | 0.30 to 0.70                                  | %  | ISO 294-4                                     |
| Water Absorption   |   |  | ISO 62  |
| 24 hr, 23°C  | 0.20  | %  |   |
| Saturation, 23°C   | 0.60  | %  |   |
| Equilibrium, 23°C, 50% RH  | 0.16  | %  |   |
| Mechanical   | Nominal Value                                 | Unit   | Test Method                                   |
| Tensile Modulus (23°C)   | 2500  | MPa  | ISO 527-2                                     |
| Tensile Stress (Yield, 23°C)   | 62.0  | MPa  | ISO 527-2/50                                  |
| Tensile Strain (Yield, 23°C)   | 4.9   | %  | ISO 527-2/50                                  |
| Nominal Tensile Strain at Break (23°C)   | 50  | %  | ISO 527-2/50                                  |
| Flexural Strength (23°C)   | 93.0  | MPa  | ISO 178                                       |
| Shear Modulus (23°C)   | 920   | MPa  | ISO 537                                       |
| Impact   | Nominal Value                                 | Unit   | Test Method                                   |
| Charpy Notched Impact Strength   |   |  | ISO 179/1eA                                   |
| -30°C  | 17  | kJ/m <sup>2</sup>                            |   |
| 23°C   | 60  | kJ/m <sup>2</sup>                            |   |
| Charpy Unnotched Impact Strength   |   |  | ISO 179/1eU                                   |
| -30°C  | No Break                                      |  |   |
| 23°C   | No Break                                      |  |   |
| Notched Izod Impact (23°C)   | 700   | J/m  | ASTM D256A                                    |
| Hardness   | Nominal Value                                 | Unit   | Test Method                                   |
| Ball Indentation Hardness (H 358/30)   | 110   | MPa  | ISO 2039-1                                    |
| Thermal  | Nominal Value                                 | Unit   | Test Method                                   |
| Heat Deflection Temperature  |   |  |   |
| 0.45 MPa, Unannealed   | 130   | °C   | ISO 75-2/B                                    |
| 1.8 MPa, Unannealed  | 109   | °C   | ISO 75-2/A                                    |
| Vicat Softening Temperature  |   |  |   |
| --   | 140   | °C   | ISO 306/A50                                   |
| --   | 130   | °C   | ISO 306/B50                                   |
| CLTE - Flow (23 to 80°C)   | 0.000070 to 0.000090                          | cm/cm/°C                                     | ISO 11359-2                                   |
| Thermal Conductivity   | 0.17  | W/m/K  | ISO 8302                                      |

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 [www.kedisujiao.com](http://www.kedisujiao.com)

备注：以上原料物性数据由厂家发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

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Tuesday, December 22, 2009

| Electrical                              | Nominal Value | Unit   | Test Method |
|---|---------------|--------|-------------|
| Surface Resistivity                     | 1.0E+14       | ohms   | IEC 60093   |
| Volume Resistivity                      | 1.0E+15       | ohm·cm | IEC 60093   |
| Relative Permittivity                   |               |        | IEC 60250   |
| 23°C, 100 Hz                            | 3.10          |        |             |
| 23°C, 1 MHz                             | 3.00          |        |             |
| Dissipation Factor                      |               |        | IEC 60250   |
| 23°C, 100 Hz                            | 0.0060        |        |             |
| 23°C, 1 MHz                             | 0.010         |        |             |
| Comparative Tracking Index (Solution A) | 225           | V      | IEC 60112   |
| Electric Strength                       | 38            | kV/mm  | IEC 60243-1 |
| Flammability                            | Nominal Value | Unit   | Test Method |
| Flame Rating - UL (1.60 mm)             | HB            |        | UL 94       |

**Additional Information**

The value listed as Thermal Conductivity, ISO 8302, was tested in accordance with DIN 52612-2.  
Flammability by electrical sources of ignition, IEC 60707, Method BH, 4mm: HB  
Maximum Service Temperature (Short Cycle Operation): 115°C  
Nominal Strain at Break, ISO 527, 50 mm/min, 23°C: >50%

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     | 100 to 110    | °C   |
| Drying Time            | 2.0 to 4.0    | hr   |
| Processing (Melt) Temp | 260 to 300    | °C   |
| Mold Temperature       | 60.0 to 90.0  | °C   |

**Extrusion Notes**

Plate Extrusion Melt Temperature: 250 to 280°C

**Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

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