

# Luran® S KR 2859

## Acrylonitrile Styrene Acrylate

### BASF Corporation

**Product Description**  
Stiff extrusions product, versatile grade for profile and sheet extrusion as protective cap layer.

General		
Material Status	• Commercial: Active	
Availability	• Europe	
Features	• Good Stiffness	
Uses	• Profiles	• Sheet
RoHS Compliance	• RoHS Compliant	
Forms	• Pellets	
Processing Method	• Extrusion • Injection Molding	• Profile Extrusion • Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	12.0	cm <sup>3</sup> /10min	ISO 1133
Water Absorption			ISO 62
24 hr, 23°C	0.45	%	
Saturation, 23°C	1.7	%	
Equilibrium, 23°C, 50% RH	0.35	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2500	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	55.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	3.2	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	7.0	%	ISO 527-2/50
Tensile Creep Modulus (1000 hr)	1200	MPa	ISO 899-1

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.0	kJ/m <sup>2</sup>	
23°C	11	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	80	kJ/m <sup>2</sup>	
23°C	160	kJ/m <sup>2</sup>	

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	98.0	°C	ISO 306/B50
CLTE - Flow (23 to 80°C)	0.000080 to 0.00011	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.17	W/m/K	ISO 8302

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohm·cm	IEC 60093

**Additional Information**  
The value listed as Thermal Conductivity, ISO 8302, was tested in accordance with DIN 52612-2.  
Maximum Service Temperature (Short Cycle Operation): 80°C  
Blow Molding Melt Temperature: 210 to 230°C  
Blow Molding Mold Temperature: 60°C

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr

**Extrusion Notes**  
Pipe Extrusion Melt Temperature: 200 to 240°C  
Plate Extrusion Melt Temperature: 230 to 270°C

#### Notes

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

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