

# Luran PM HH 300

Alpha-Methylstyrene Acrylonitrile (AMSAN)

## TECHNICAL DATASHEET

### DESCRIPTION

Luran® PM HH 300 is an AMS/acrylonitrile copolymer (AMSAN) powder with an average particle size distribution of 200-400 micron. It is particularly suitable as best-in-class heat resistance modifier for rigid PVC, ASA and ABS.

### FEATURES

- Heat resistance
- impact resistance
- UV resistance
- Easy processing

### APPLICATIONS

- Polymer blending
- Extrusion

Property, Test Condition	Standard	Unit	Values
<b>Rheological Properties</b>			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm <sup>3</sup> /10 min	9
<b>Mechanical Properties</b>			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m <sup>2</sup>	2
Charpy Unnotched, 23 °C	ISO 179/1eU	kJ/m <sup>2</sup>	22
Charpy Unnotched, -30 °C	ISO 179/1eU	kJ/m <sup>2</sup>	22
Tensile Modulus	ISO 527	MPa	3900
Tensile Stress at Yield, 23 °C	ISO 527	MPa	79
Tensile Strain at Break, 23 °C	ISO 527	%	3
Hardness, Ball Indentation	ISO 2039-1	MPa	175
<b>Thermal Properties</b>			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	116
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	102
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	109
<b>Optical Properties</b>			
Refractive Index, Sodium D Line	ISO 489	-	1.57
Haze	ASTM D 1003	%	< 1
Light Transmission at 550 nm	ASTM D 1003	%	> 89

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<b>Other Properties</b>			
Density	ISO 1183	kg/m <sup>3</sup>	1080
Bulk density	-	kg/m <sup>3</sup>	450 - 550
Max. particle size	ISO 3310-1	µm	600
Average particle size	ISO 3310-1	µm	200 - 400