

### Description

IROGRAN A 85 P 4350 is a flame-retardant, halogen-free thermoplastic polyether-polyurethane for injection molding and extrusion applications.

Additional characteristics of the product are excellent microbial resistance, high low-temperature flexibility, especially suitable for cable jackets.

### Performance Characteristics

- excellent hydrolysis resistance
- high microbial resistance
- good melt flow
- high elasticity
- halogen-free

### Applications

For the production of jacket material for cables, spiral hoses, profiles.

### Supply and Storage

IROGRAN A 85 P 4350 is supplied in the form of opaque pellets in bags of 25 kg net (1000 kg/pallet).

If stored in a cool and dry place a stability of at least 6 months may be expected.

### Physical Form

Type	Pellet
Bulk density	41 lb/cu ft 700 Kg/m <sup>3</sup>

### Drying conditions

	<b>°F</b>	<b>°C</b>
Drying Temperature	194	90
Drying time, hrs	3	3
Dew Point	-22	-30

Physical properties* Key**	units	units	Norm
Shore hardness A	M 87	87	DIN 53505
Shore hardness D	M 36	36	DIN 53505
Tensile strength	M 40 MPa	5800 psi	DIN 53504
Ultimate elongation	M 550 %	550 %	DIN 53504
100 % Tensile Modulus	M 6,0 MPa	870 psi	DIN 53504
300 % Tensile Modulus	M 11 MPa	1595 psi	DIN 53504
Tear strength	M 60 N/mm	342 pli	DIN 53515
Abrasion Resistance	M 45 mm <sup>3</sup>		DIN 53516
Compression set / 70 h @ 23 °C	M 30 %	30 %	DIN 53517
Compression set / 24 h @ 70 °C	M 50 %	50 %	DIN 53517
Bayshore Rebound Resilience			
Mold Shrinkage			
Specific Gravity	M 1,15	1,15	DIN 53479
Thermal: Melt range			
TSCA Status: listed			

\* typical properties no sales specifications  
 \*\* E = 0.025 extruded film cut to ASTM requirements  
 M = 0,075 injection molded ASTM test specimens tested at 20°/minute after 3 days of RT aging

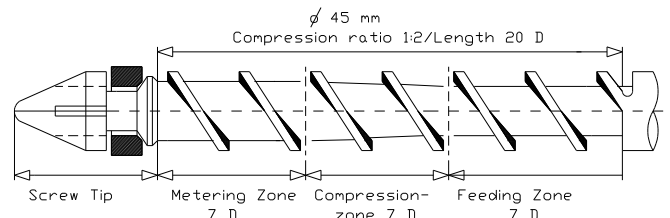
### Processing parameters

#### MVR Rate

**190 °C / 21,6 Kg 30 - 60 cm<sup>3</sup> / 10 min**

IROGRAN A 85 P 4350 can be processed on conventional machines for injection molding and extrusion.

Recommended processing Temp. Range:



<b>Nozzle</b>	<b>Zone3</b>	<b>Zone2</b>	<b>Zone1</b>
185 °C	190 °C	190 °C	185 °C
365 °F	374 °F	374 °F	365 °F

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