

Description

IROGRAN A 78 P 4766 is a flame-retardant, halogen-free, thermoplastic polyether-polyurethane for injection molding and extrusion applications.

Additional characteristic of the product is the high flexibility and elasticity.

Performance Characteristics

- high hydrolysis resistance
- high microbial resistance
- flame retarded
- halogen-free
- UL 94 classification VO

Applications

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

Supply and Storage

IROGRAN A 78 P 4766 is supplied in the form of transparent pellets in bags of 25 kg net (1000 kg/pallet).

IROGRAN TPU has an expected shelf life of minimum 12 months after shipment date. The product should be stored in a dry and cool place in the manufacturer's original packaging.

Physical Form

Type	Pellet
Bulk density	40 lb/cu ft 680 Kg/m ³

Drying conditions

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

Physical properties* Key**		units	units	Norm
Shore hardness A	M	80	80	DIN 53505
Shore hardness D	M	22	22	DIN 53505
Tensile strength	M	30 MPa	4350 psi	DIN 53504
Ultimate elongation	M	800 %	800 %	DIN 53504
100 % Tensile Modulus	M	3,9 MPa	570 psi	DIN 53504
300 % Tensile Modulus	M	8,0 MPa	1090 psi	DIN 53504
Tear strength	M	40 N/mm	228 pli	DIN 53515
Abrasion Resistance	M	50		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	M	0,8 %	0,008 in/in	D-995
Specific Gravity	M	1,10	1,10	DIN 53479
Thermal: Melt range	R	127-180°C	260-356°F	Huntsman/TMA
TSCA Status: listed				

* typical properties

no sales specifications

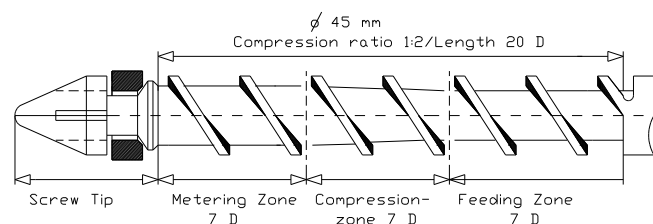
Processing parameters

MVR Rate

190 °C / 21,6 Kg 80 - 120 cm³/10 min

IROGRAN A 78 P 4766 can be processed on conventional machines for injection molding and extrusion.

Recommended processing Temp. Range:



Nozzle	Zone3	Zone2	Zone1
175 °C	180 °C	180 °C	175 °C
347 °F	356 °F	356 °F	347 °F

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