IROGRAN A 85 P 4380

Description

IROGRAN A 85 P 4380 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
- low-adhesion surfaces
- good melt flow
- Halogen free

Applications

For the production of jacket material for cables, hosescable bushings, profiles.

Physical properties*	Key**	units	units	Norm
Shore hardness A	M	87	87	DIN 53505
Shore hardness D	M	35	35	DIN 53505
Tensile strength	M	35 MPa	5076 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	9 MPa	1305 psi	DIN 53504
Tear strength	M	55 N/mm	314 pli	DIN 53515
Abrasion Resistance	M	45 mm^3		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

Supply and Storage

IROGRAN A 85 P 4380 is supplied in the form of opaque pellets in bags of 25 kg net (1000 kg/pallet) or in containers of 750 kg.

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	41 lb/cu ft
	700 Kg/m^3

Drying conditions

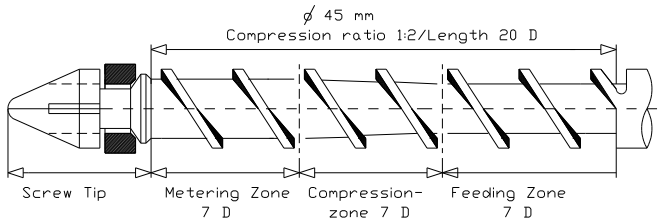
	°F	°C
Drying Temperature	194	90
Drying time, hrs	3	3
Dew Point	-22	-30

Processing parameters

MVR Rate

190 °C / 21,6 Kg 30 - 60 cm^3 / 10 min

IROGRAN A 85 P 4380 can be processed on conventional machines for injection molding and extrusion.
Recommended processing Temp. Range:



Nozzle	Zone3	Zone2	Zone1
170 °C	190 °C	190 °C	180 °C
356 °F	374 °F	374 °F	338 °F

Updated Sept. 05
Printed on 29/09/05

Information contained herein is based on our present knowledge and experience and does not release the converter from conducting his own comprehensive tests. A legally binding guarantee, also regarding possible rights of third parties, is expressly denied. Our products are sold according to our General Terms of Sales and Delivery. Nothing contained herin is to be construed as a recommendation for use in violation of any patents or of applicable laws or regulations.