

HEROCOMP PTFE COMPOUNDS INSULATORS SERIES



Herocomp Insulators Series is the special product line addressed to Medium to **High Voltage electrical Plants applications** for safety and protection components.

The products especially developed for this kind of application are:

Herocomp BN Polytetrafluoroethylene + Boron Nitride (BN)

Herocomp M Polytetrafluoroethylene + Molybdenum Disulphide (MoS_2)

Herocomp Al Polytetrafluoroethylene + Alumina Powder (Al_2O_3)

Herocomp CoAl Polytetrafluoroethylene + Cobalt Aluminate (CoAl_2O_4)

MAIN BENEFITS

- ✓ Extremely high resistance to thermal excursion and excellent insulating properties
- ✓ Highest dielectric strength for SF6 Gas Circuit Breaker Nozzles applications
- ✓ Ultra-clean processing for contamination and agglomerate-free components

PROCESSING

- ✓ Compression moulding
- ✓ Isostatic moulding

APPLICATIONS

- ✓ Insulating nozzles for medium to high voltage plants

Herocomp Insulators Series include compounds with **different kind of fillers** such as Molybdenum Disulphide, Alumina Powder, Cobalt Aluminate and Boron Nitride in different concentration percentages. Herocomp Insulators Series available grades are **Non Free-Flowing (NFF)** and **Free-Flowing (FF)**. Possibility to develop special Insulators Compounds in combination with pigments and other suitable fillers upon request.

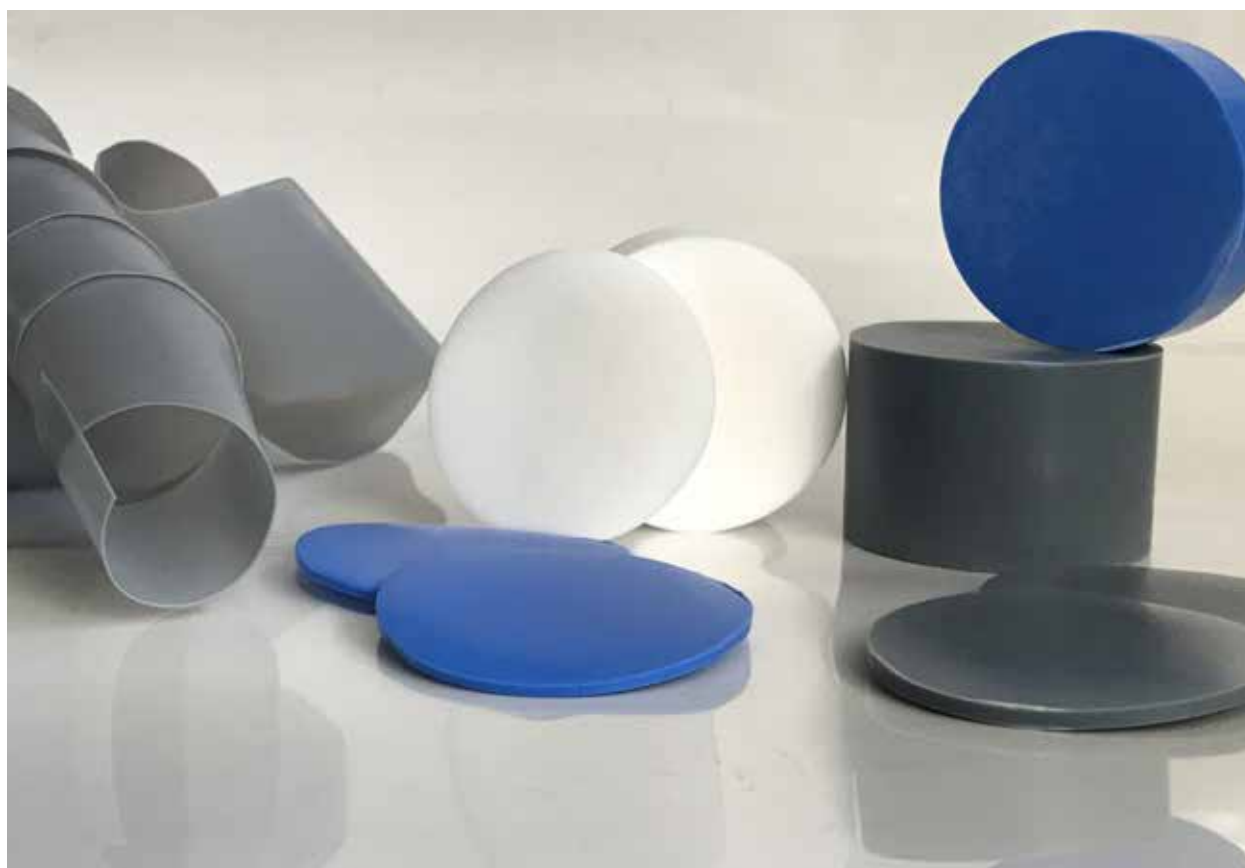


PROPERTY	TEST METHOD	UNIT	BN-NFF	M-NFF	AL+NFF	COAL-NFF
Typical Figures						
Bulk Density	ASTM D4894	g/l	400	400	400	420
Specific Gravity	ASTM D4894	-	2,16	2,17	2,21	2,18
Tensile Strength	ASTM D4894	MPa	25	35	28	36
Elongation	ASTM D4894	%	290	350	280	420
Hardness	NEEDLE	Shore D	61	57	60	58
Diametric Shrinkage	INTERNAL	%	2,5	3,2	3,3	3,4
Dielectric Strength*	EN IEC60243-1	kV/mm	55	45	50	45
Volume Resistivity	ASTM D257	ohm•cm	10 ¹⁷	10 ¹⁷	10 ¹⁷	10 ¹⁷

These are Typical Values not suitable for specification purposes

NFF: Non Free-Flowing grade for Isostatic and Compression Molding

* Test set-up: Ball
Ball Electrodes: \varnothing 12 mm \pm 0,5 mm
Electrodes Spacing: 0,5 mm \pm 0,1 mm



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