M SEALS **PPC-ND69**

High Density Polyethylene Engineering Thermoplastic

MATERIAL DATA SHEET (Version 6.0 – 05.2022)

Description

PPC-ND69 is an amorphous polypropylene co-polymer which provides high heat resistance, strength, toughness and chemical corrosion resistance. PPC is particularly suitable for use in the chemical engineering industry and clean room environments due to its food safe properties.

Physical Properties

Property	Test method	Unit	Typical value
Colour			Natural / White
Shore Hardness	Shore D	DIN ISO 868	69
Yield stress	ISO 527	MPa	23
Elongation at break	ISO 527	%	>50
Tensile Modulus of elasticity	ISO 527	MPa	1100
Water absorption	ISO 62	%	<0.1
Density	ISO 1183-1	g/cm^3	0.91
Surface resistivity	IEC 60093	Ohm	$>10^{13}$
Volume resistivity	IEC 60093	Ohm cm	$>10^{14}$
Melting Point	ISO 11357-3	°C	162-167
Heat Deflection Temperature	ISO 306 B	°C	85
Coefficient Of Linear Thermal Expansion	DIN 53752	10^{-6} K^{-1}	120-190
Service temperature (Long term)		°C	-30 to +100
Service temperature (short term - max)		°C	+150

Main Characteristics

- FDA compliant
- Good chemical resistance
- Good heat resistance
- Low water absorption
- Tough material

Typical Products

- Anti-Extrusion / Back-up Rings
- Bearing rings / guide rings
- Bushes
- Bespoke parts
- Liners

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