TECHNICAL DATA SHEET

Queensland Gaskets

POLYPROPYLENE PLASTIC

Polypropylene plastics, sometimes abbreviated as PP, is a thermoplastic polymer used is a wide variety of industrial plastics applications including food processing, reusable containers, plastic parts, chemical tanks and bunds.



TECHNICAL INFORMATION

General properties			
Density	DIN EN ISO 1183-1	g/cm^3	0,91
Water absorption	DIN EN ISO 62	%	<0,1
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	32
Elongation at break	DIN EN ISO 527	%	>50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	1300
Notched impact strength (charpy)	DIN EN ISO 179	kJ/m^2	4
Shore hardness	DIN EN ISO 868	scale D	72
Thermal properties			
Melting temperature	ISO 11357-3	°C	162-167
Thermal conductivity	DIN 52612-1	W / (m * K)	0,20
Thermal capacity	DIN 52612	kJ / (kg * K)	1,70
Coefficient of linear thermal expansion	DIN 53752	$10^{-6}K^{-1}$	120-190
Service temperature, long term	Average	°C	0 ...100
Service temperature, short term (max.)	Average	°C	150
Heat deflection temperature	DIN EN ISO 306, Vicat B	°C	90
Electrical properties			
Dielectric constant	IEC 60250		2,4
Dielectric dissipation factor (10^6Hz)	IEC 60250		0,00019
Volume resistivity	IEC 60093	Ω *cm	>10^{14}
Surface resistivity	IEC 60093	Ω	>10^{14}
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV/mm	45

Contact us to discuss requirements and place your order 07 3277 3922

All information and data quoted has been provided by our suppliers and is based upon years of experience in the production and operation of sealing elements. This data may not be used to support any warranty claims. With its publication this latest edition supersedes all previous issues and is subject to change without further notice.