FAÇADE CREATIONS

Technical Specification Sheets

T: +44 (0) 116 289 3343 E: info@facadecreations.co.uk W: www.facadecreations.co.uk
Registered Office Address: 124 City Road, London, England, EC1V 2NX. Registered in England, Company Number: 16267073

Chemical Designation
POM-H (Polyacetal (Homopolymer))

Colour
natural

Density
1.43 g/cm^3

Fillers
silicone oil, PTFE

Main features
- very good bearing and wear properties
- for injection moulding

Target Industries
- automotive industry
- mechanical engineering

Mechanical properties	parameter	value	unit	norm	comment
Tensile strength		59	MPa	DIN EN ISO 527-1	
Modulus of elasticity (tensile test)		2500	MPa	DIN EN ISO 527-1	
Elongation at break (tensile test)		24	%	DIN EN ISO 527-1	
Notched impact strength (Charpy)		8	kJ/m^2	DIN EN ISO 179-1eA	

Thermal properties	parameter	value	unit	norm	comment
Glass transition temperature		-60	°C	- 1)	(1) literature value (2) literature value (3) literature value (4) literature value
Melting temperature		175	°C	- 2)	
Heat distortion temperature		115	°C	ISO-R 75 Method A	
Service temperature	short term	150	°C	- 3)	
Service temperature	long term	110	°C	- 4)	

Electrical properties	parameter	value	unit	norm	comment
surface resistivity		10^{13}	Ω	DIN EN 61340-2-3	
volume resistivity		10^{13}	Ω*cm	DIN EN 61340-2-3	

Other properties	parameter	value	unit	norm	comment
Water absorption	23 °C / 50 % relative humidity up to saturation	0,2	%	DIN EN ISO 62	
Molding shrinkage	longitudinal	2,8	%	DIN EN ISO 294-4	
Molding shrinkage	transverse	2,5	%	DIN EN ISO 294-4	

Processing parameter	parameter	value	unit	norm	comment
processing temperatures		180 - 220	°C	-	
Mould temperature		80 - 120	°C	-	

- This material can be processed as a thermoplastic taking the normal technical provisions into account. The above mentioned information refers exclusively to the injection moulding process.
- Back pressure and injection rate should be adjusted to the component geometry accordingly. The optimum processing temperature depends upon the respective geometry of the moulded part and can be different from machine to machine.

Predrying	parameter	value	unit	norm	comment
Permissible residual moisture content		< 0,05	%	-	
Drying temperature		100	°C	-	
Drying time		4 - 8	h	-	