

HOSTAFORM® MR130HPB - POM

Description

Preliminary Data Sheet Hostaform® MR130HPB acetal copolymer is a high modulus, improved toughness grade based on our Hostaform® C 13031 product but specially formulated with improved resistance to intermittent bleach exposure.

Physical properties	Value	Unit	Test Standard
Density	1410	kg/m ³	ISO 1183
Melt volume rate, MVR	13	cm ³ /10min	ISO 1133
MVR temperature	190	°C	ISO 1133
MVR load	2,16	kg	ISO 1133
Water absorption, 23°C-sat	0,8	%	ISO 62
Humidity absorption, 23°C/50%RH	0,25	%	ISO 62

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	3100	MPa	ISO 527-2/1A
Tensile stress at yield, 50mm/min	69	MPa	ISO 527-2/1A
Tensile strain at yield, 50mm/min	9	%	ISO 527-2/1A
Flexural modulus, 23°C	3000	MPa	ISO 178
Flexural strength, 23°C	80	MPa	ISO 178
Charpy notched impact strength, 23°C	6,5	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	6	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
Melting temperature, 10°C/min	170	°C	ISO 11357-1/-3
DTUL at 1.8 MPa	107	°C	ISO 75-1, -2
Coeff. of linear therm expansion, parallel	1,2	E-4/°C	ISO 11359-2
Coeff. of linear therm expansion, normal	1,2	E-4/°C	ISO 11359-2

Typical injection moulding processing conditions

Pre Drying	Value	Unit	Test Standard
Drying time	3 - 4	h	-
Drying temperature	100 - 120	°C	-
Temperature	Value	Unit	Test Standard
Hopper temperature	20 - 30	°C	-
Feeding zone temperature	60 - 80	°C	-
Zone1 temperature	170 - 180	°C	-
Zone2 temperature	180 - 190	°C	-
Zone3 temperature	180 - 200	°C	-
Zone4 temperature	180 - 210	°C	-
Nozzle temperature	180 - 210	°C	-
Melt temperature	190 - 210	°C	-
Mold temperature	80 - 120	°C	-
Hot runner temperature	190 - 210	°C	-
Pressure	Value	Unit	Test Standard
Back pressure max.	40	bar	-
Speed	Value	Unit	Test Standard
Injection speed	slow	-	-

Other text information

Pre-drying

Drying not normally required. If material has contacted moisture through improper storage, handling, or regrind use, drying may be needed to prevent splay and odor.

Longer pre-drying times/storage

The product can then be stored in standard conditions until processed.

Characteristics

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Product Categories

Specialty

Delivery Form

Pellets

Processing

Injection molding

Contact Information

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General Disclaimer

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