

HOSTAFORM® LU-02XAP® | POM | UV Resistant

Description

Hostaform® acetal copolymer grade LU-02 XAP® is UV stabilized material displaying a reduced gloss over standard UV acetal grades similar to LU-02. However, Hostaform® LU-02XAP® has lower volatile emissions as required for some automotive interiors.

Physical properties	Value	Unit	Test Standard
Density	1390	kg/m ³	ISO 1183
Melt volume rate (MVR)	20	cm ³ /10min	ISO 1133
MVR test temperature	190	°C	ISO 1133
MVR test load	2.16	kg	ISO 1133
Mold shrinkage - parallel	1.9	%	ISO 294-4
Mold shrinkage - normal	1.7	%	ISO 294-4

Mechanical properties	Value	Unit	Test Standard
Tensile modulus (1mm/min)	2400	MPa	ISO 527-2/1A
Tensile stress at yield (50mm/min)	56	MPa	ISO 527-2/1A
Tensile strain at yield (50mm/min)	9	%	ISO 527-2/1A
Flexural modulus (23°C)	2350	MPa	ISO 178
Charpy notched impact strength @ 23°C	3.5	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
Melting temperature (10°C/min)	166	°C	ISO 11357-1,-2,-3
DTUL @ 1.8 MPa	90	°C	ISO 75-1/-2
DTUL @ 0.45 MPa	152	°C	ISO 75-1/-2

Test specimen production	Value	Unit	Test Standard
Processing conditions acc. ISO	9988-2	-	Internal

Typical injection moulding processing conditions



Pre Drying:

Predrying is required before processing to ensure a low gloss finish.

Drying time: 3 h

Drying temperature: 80 - 100 °C

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Temperature:

	°Mold	°Melt	°Nozzle	°Zone4	°Zone3	°Zone2	°Zone1
min (°C)	80	180	185	180	175	170	170
max (°C)	105	195	195	190	185	180	175

Pressure:

	Inj press	Hold press	Back pressure
min (bar)	600	600	0
max (bar)	1200	1200	5

Speed:

Injection speed: slow

Special Info:

Use slow injection speed until material passes through gate, then increase.

Contact Information

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General Disclaimer

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colorants or other additives may cause significant variations in data values.

Properties of molded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use.

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We strongly recommend that users seek and adhere to the manufacturer's current instructions for handling each material they use, and entrust the handling of such material to adequately trained personnel only. Please call the telephone numbers listed (+49 (0) 69 30516299 for Europe and +1 859-372-3244 for the Americas) for additional technical information. Call Customer Services for the appropriate Materials Safety Data Sheets (MSDS) before attempting to process our products.

The products mentioned herein are not intended for use in medical or dental implants.

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