Celanese
The chemistry inside innovation™

HOSTAFORM® M25AE AS - POM

Experimental Grade. Please contact your Celanese representative for further information.

Description

POM copolymer Antistatical modified; targeted for extrusion shapes (rod, bar, plate, etc.) free of center porosity in large diameters and thicknesses. The antistatical effect improves, when the molding part absorbs enough humidity; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation. Hostaform M25AE AS is suggested for dissipation of minor buildup of static electricity that might occur with standard type grades. However, it is not intended for use in fuel system components where static dissipation is critical to part performance. Please refer to Celanese's ESD (electrostatic dissipative) grades for those applications Preliminary Datasheet

Physical properties	Value	Unit	Test Standard
Density	**1410**	kg/m³	ISO 1183
Melt volume rate, MVR	**2.5**	cm³/10min	ISO 1133
MVR temperature	**190**	°C	ISO 1133
MVR load	**2.16**	kg	ISO 1133

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	**2200**	MPa	ISO 527-2/1A
Tensile stress at yield, 50mm/min	**56**	MPa	ISO 527-2/1A
Tensile strain at yield, 50mm/min	**11**	%	ISO 527-2/1A
Charpy impact strength, 23°C	**250**[P]	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**250**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	**9**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**7**	kJ/m²	ISO 179/1eA

P: Partial Break

Thermal properties	Value	Unit	Test Standard
Melting temperature, 10°C/min	**163**	°C	ISO 11357-1/-3

Electrical properties	Value	Unit	Test Standard
Surface resistivity	**1E12**	Ohm	IEC 60093

Typical injection moulding processing conditions

Pre Drying	Value	Unit	Test Standard
Drying time	**3 - 4**	h	-
Drying temperature	**100 - 120**	°C	-

Other text information

Profile extrusion

Standard extruders with grooved feed zone and short compression screws (minimum 25 D) will fit.

Melt temperature 180-190 °C

Sheet extrusion

Standard extruders with grooved feed zone and short compression screws (minimum 25 D) will fit.

Melt temperature 180-190 °C

Characteristics

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Special Characteristics	Delivery Form
Anti-static, High viscosity	Pellets

Product Categories	Additives
Specialty	Release agent

Processing

Injection molding, Other extrusion, Sheet extrusion

Contact Information

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. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards. 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 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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