

## HOSTAFORM® M25AE AS - POM

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

### Description

POM copolymer Antistatistical modified; targeted for extrusion shapes (rod, bar, plate, etc.) free of center porosity in large diameters and thicknesses. The antistatistical 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/m <sup>3</sup>	ISO 1183
Melt volume rate, MVR	2.5	cm <sup>3</sup> /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 <sup>[P]</sup>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	250	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	9	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	7	kJ/m <sup>2</sup>	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

