

Clearlux® 816
MABS

INEOS Styrolution

Clearlux® 816 is a Methyl Methacrylate Acrylonitrile Butadiene Styrene (MABS) polymer. The grade offers a unique combination of excellent flow, high impact strength, heat resistance and good colorability. Food contact statements are available on request.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	16	cm ³ /10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1900	MPa	ISO 527
Yield stress	42	MPa	ISO 527
Yield strain	4	%	ISO 527
Nominal strain at break	7.2	%	ISO 527
Impact Strength (Charpy), +23°C	no break	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy), -30°C	190	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	8	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness	75	MPa	ISO 2039-1

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	87	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	93	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	87	°C	ISO 306

Other Properties	Value	Unit	Test Standard
ISO Data			
Water Absorption	0.7	%	Sim. to ISO 62
Density	1080	kg/m ³	ISO 1183
Bulk density	600	kg/m ³	-

Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Density of melt	953	kg/m ³	-
Thermal Conductivity of Melt	0.192	W/(m K)	-
Spec. heat capacity of melt	2350	J/(kg K)	-
Ejection temperature	87	°C	-

Optical Properties	Value	Unit	Test Standard
ASTM Data			
Haze	2	%	ASTM D 1003

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	70	°C	-
Pre-drying - Time	2	h	-
Melt temperature	220 - 250	°C	-
Mold temperature	44 - 70	°C	-
Injection speed	200	mm/s	-

Characteristics

Processing

Injection Molding

Delivery form

Pellets

Chemical Resistance

General Chemical Resistance

Applications

Electrical and Electronical, Packaging

Special Characteristics

Impact modified, Heat aging stabilized, Transparent

Injection Molding

PREPROCESSING

Pre-drying, Temperature: 70 °C

Pre-drying, Time: 2h

PROCESSING

Melt temperature, range: 220 - 250 °C

Mold temperature, range: 44 - 70 °C

Disclaimer

Liability Exclusion

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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