INEOS Styrolution

Clearlux® 816

MABS

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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 avilable on request.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	16	cm³/10min	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/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	190	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	8	kJ/m²	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/m³	ISO 1183
Bulk density	600	kg/m³	-

Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Density of melt	953	kg/m³	-
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

Chemical Resistance
General Chemical Resistance

Delivery form
Pellets

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

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