

Clearblend 145

Methyl Methacrylate Butadiene Styrene (MBS)

TECHNICAL DATASHEET

DESCRIPTION

Clearblend® 145 is an impact modified styrene acrylic copolymer blend with excellent clarity.

FEATURES

- Excellent clarity
- Low density
- Ease of processing
- Low moisture absorption

APPLICATIONS

- Appliances and consumer goods
- Toys
- Office accessories
- Industrial housings and covers
- Point of purchase displays

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate, 200 °C/5 kg	ISO 1133	cm ³ /10 min	3.5
Mechanical Properties			
Tensile Stress at Yield, 23 °C	ISO 527	MPa	28
Tensile Modulus	ISO 527	MPa	2240
Elongation, Failure	-	%	40
Flexural Strength, 23 °C	ISO 178	MPa	55
Flexural Modulus, 23 °C	ISO 178	MPa	2280
Hardness, Rockwell	-	M scale	80
Thermal Properties			
Vicat Softening Temperature, B/1 (120 °C/h, 10N)	ASTM D 1525	°C	98
Optical Properties			
Refractive Index, Sodium D Line	ISO 489	-	1.57
Light Transmission at 550 nm	ASTM D 1003	%	90
Haze	ASTM D 1003	%	2
Other Properties			
Density	ISO 1183	kg/m ³	1040

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Property, Test Condition	Standard	Unit	Values
Water Absorption, Saturated at 23 °C	ISO 62	%	0.1
Processing			
Drying Temperature	-	°C	65
Drying Time	-	h	2
Max Service Temperature	-	°C	250