

# 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
<b>Rheological Properties</b>			
Melt Flow Rate, 200 °C/5 kg	ASTM D 1238	g/10 min	3.5
<b>Mechanical Properties</b>			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	1
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	4000
Tensile Modulus	ASTM D 638	psi x 10 <sup>3</sup>	325
Elongation, Failure	ASTM D 638	%	40
Flexural Strength, 23 °C	ASTM D 790		8000
Flexural Modulus, 23 °C	ASTM D 790	psi x 10 <sup>3</sup>	330
Hardness, Rockwell	ASTM D 785	R scale	80
<b>Thermal Properties</b>			
Vicat Softening Temperature, B/1 ( 120 °C/h, 10N)	ASTM D 1525	°F	208
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	-	°F	198
<b>Optical Properties</b>			
Refractive Index, Sodium D Line	ASTM D 542	-	1.57
Light Transmission at 550 nm	ASTM D 1003	%	90
Haze	ASTM D 1003	%	1.8

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Property, Test Condition	Standard	Unit	Values
<b>Other Properties</b>			
Density (ASTM )	ASTM D 792	g/cm <sup>3</sup>	1.04
Water Absorption, Saturated at 23 °C	ASTM D 570	%	0.1
<b>Processing</b>			
Melt Temperature Range	-	°F	400 - 460
Mold Temperature Range	-	°F	80 - 130
Rear Temperature Range	-	°F	355 - 415
Middle Temperature Range	-	°F	365 - 425
Front Temperature Range	-	°F	375 - 435
Drying Temperature	-	°F	150
Drying Time	-	h	2
Max Service Temperature	-	°F	480