INEOS STYROLUTION

Clearblend 165

Methyl Methacrylate Butadiene Styrene (MBS)

TECHNICAL DATASHEET

DESCRIPTION

Clearblend® 165 is an impact modified styrene acrylic copolymer blend with excellent clarity and outstanding toughness.

FEATURES

- Exceptional toughness
- Low density
- Ease of processing
- Low moisture absorption

APPLICATIONS

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

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 200 °C/5 kg	ASTM D 1238	g/10 min	5
Mechanical Properties			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	5
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	3000
Tensile Modulus	ASTM D 638	psi x 10^3	220
Elongation, Failure	ASTM D 638	%	50
Flexural Strength, 23 °C	ASTM D 790		5400
Flexural Modulus, 23 °C	ASTM D 790	psi x 10^3	225
Hardness, Rockwell	ASTM D 785	R scale	70
Thermal Properties			
Vicat Softening Temperature, B/1 (120 °C/h, 10N)	ASTM D 1525	°F	201
Optical Properties			
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
Other Properties			

INEOS STYROLUTION

Clearblend 165

Methyl Methacrylate Butadiene Styrene (MBS)

TECHNICAL DATASHEET

Property, Test Condition	Standard	Unit	Values
Density (ASTM)	ASTM D 792	g/cm³	1.04
Water Absorption, Saturated at 23 °C	ASTM D 570	%	0.1
Processing			
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