HK:+852-69575415 China GuangDong:+13538586433 ShangHai:+18816996168

INEOS STYROLUTION

Clearblend 155

Methyl Methacrylate Butadiene Styrene (MBS)

TECHNICAL DATASHEET

DESCRIPTION

Clearblend® 155 is an impact modified styrene acrylic copolymer blend with excellent clarity and exceptional performance in applications requiring toughness in drop tests.

FEATURES

- High clarity
- Exceptional performance in drop tests
- Low density
- Ease of processing
- Gamma & ETO sterilizable

APPLICATIONS

- Appliances and consumer goods
- Medical devices
- Toys
- Office accessories
- Industrial housings and covers
- Reusable drinkware

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate, 200 °C/5 kg	ISO 1133	cm³/10 min	6
Mechanical Properties			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	kJ/m²	110
Tensile Stress at Yield, 23 °C	ISO 527	MPa	28
Tensile Modulus	ISO 527	MPa	1830
Elongation, Failure		%	40
Flexural Strength, 23 °C	ISO 178	MPa	41
Flexural Modulus, 23 °C	ISO 178	MPa	1830
Hardness, Rockwell		M scale	70
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	-	1.56
Light Transmission at 550 nm	ASTM D 1003	%	91
Haze	ASTM D 1003	%	2.5

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Property, Test Condition	Standard	Unit	Values
Other Properties			
Density	ISO 1183	kg/m³	1050
Water Absorption, Saturated at 23 °C	ISO 62	%	0.1
Processing			
Linear Mold Shrinkage	ISO 294-4	%	0.2 to 0.6
Melt Temperature Range	ISO 294	°C	204 - 238
Mold Temperature Range	ISO 294	°C	27 - 54
Rear Temperature Range		°C	179 - 213
Middle Temperature Range		°C	185 - 218
Front Temperature Range		°C	191 - 224
Injection Velocity	ISO 294	mm/s	Moderate to Fast
Drying Temperature		°C	65
Drying Time		h	2
Max Service Temperature		°C	250