

Clearblend® 145

Methyl Methacrylate Butadiene Styrene
Styrolution

Message:

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

General Information			
Additive	Impact Modifier		
Features	Copolymer		
	Good Processability		
	High Clarity		
	Impact Modified		
	Low Density		
	Low Moisture Absorption		
Uses	Appliances		
	Consumer Applications		
	Displays		
	Housings		
	Industrial Applications		
	Toys		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.5	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	3.50	cm ³ /10min	ISO 1133
Molding Shrinkage			
Flow	0.20 to 0.60	%	ASTM D955
--	0.20 to 0.60	%	ISO 294-4
Water Absorption (Saturation, 23°C)	0.10	%	ASTM D570, ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2240	MPa	ASTM D638, ISO 527-2
Tensile Strength			
Yield, 23°C	27.6	MPa	ASTM D638
Yield, 23°C	28.0	MPa	ISO 527-2
Tensile Elongation (Break)	40	%	ASTM D638

Flexural Modulus	2280	MPa	ASTM D790, ISO 178
Flexural Strength			
--	55.2	MPa	ASTM D790
--	55.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	92.2	°C	
Vicat Softening Temperature	97.8	°C	ASTM D1525 ¹
Maximum Service Temperature	250	°C	
Optical	Nominal Value	Unit	Test Method
Refractive Index ²	1.570		ASTM D542, ISO 489
Transmittance (550 nm)	90.0	%	ASTM D1003
Haze	2.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	65.0	°C	
Drying Time	2.0	hr	
Rear Temperature	179 to 213	°C	
Middle Temperature	185 to 218	°C	
Front Temperature	191 to 224	°C	
Processing (Melt) Temp	204 to 238	°C	
Mold Temperature	27.0 to 54.0	°C	
Injection Rate	Moderate-Fast		
NOTE			
1.	Rate B (120°C/h), Loading 1 (10 N)		
2.	Sodium D line		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

