Melt Flow Indexer

Model: M0004



The Melt Flow Indexer is a dead-weight extrusion plastometer.

It consists of a thermostatically controlled melting chamber (the barrel) in which the polymer under testing is heated and from which it is extruded through a standard die under standard conditions of load. The load is made up of the combined weights of the extrusion piston and the loose weight both of which are carefully calibrated to well within the most stringent limits.



Applications:

Plastics

Features:

• Barrel	Material Outside diameter Inside diameter Length	Precision ground and honed high grade tool steel 50.8mm 9.55mm 162 mm	
• Piston	Diameter Weight	9.47mm 100g	
	Piston Weights	1 x 4.9 kg weight 1 x 2.06 kg weight	
 Timer accuracy 		0.01s	
• Die	Material Outside diameter Inside diameter Length	Tungsten Carbide 9.5504mm 2.0955mm 8 mm long	
Temperature	Temperature Range	50.0° - 300.0° C, \pm 0.2° C 50.0° - 400.0° C, \pm 0.2° C Barrel temperature is controlled by the Precision Digital Temperature Controller	
Working Environment	Operating Temperature Operating Humidity	-10°C to 55°C 25% to 65%	
• Includes		1 x Sample Cut Off Knife 1 x Cleaning Tool 1 x Die Remover 1 x Filler Tool 1 x Die Cleaner 1 x Level	

Standards:

- BS2782
- ASTM D1238: Procedure A
- ISO 1133

Options:

 Die: Alternate Standard die used in BS2782 Method 1050 with a bore diameter of 1.181 mm

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Procedural Conditions:

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Material	Condition	
Acetals (copolymerand homoploymer)	190/2.16	190/1.05
Acrylics	230/1.2	230/3.8
Acrylonitrile-butadiene-styrene	200/5.0	230/3.8
	220/10	
Acrylonitrile/butadiene/styrene/polycarbonate	230/3.8	250/1.2
blends	265/3.8	265/5.0
Cellulose esters	190/0.325	190/2.16
	190/21.60	210/2.16
Ethylene-chlorotrifluoroethylene copolymer	271.5/2.16	
Ethylene-tetrafluoroethylene copolymer	297/5.0	
Nylon	275/0.325	235/1.0
	235/2.16	235/5.0
	275/5.0	
Perfluoro (ethylene-propylene) copolymer	372/2.16	
Perfluoroalkoxyalkane	372/5.0	
Polycaprolactone	125/2.16	80/2.16
Polychlorotrifluorethylene	265/12.5	
Polyethylene	125/0.325	125/2.16
	250/1.2	
	190/0.325	190/2.16
	190/21.60	190/10
	310/12.5	
Polycarbonate	300/1.2	
Polymonochlorotrifluoroethylene	265/21.6	
	265/31.6	
Polypropylene	230/2.16	
Polystyrene	200/5.0	230/1.2
	230/3.8	190/5.0
Polyterephthalate	250/2.16	210/2.16
-	285/2.16	
Poly (vinyl acetal)	150/21.6	
Poly (vinylidene fluoride)	230/21.6	
,	230/5.0	
Poly (phenylene sulfide)	315/5.0	
Styrene acrylonitrile	220/10	230/10
•	230/3.8	
Styrenic Thermoplastic Elastomer	190/2.16	200/5.0
Thermoplastic Elastomer-Ether-Ester	190/2.16	220/2.16
	230/2.16	240/2.16
		250/2.16
Thermoplasyic Elastomers (TEO)	230/2.16	
Vinylidene fluoride copolymers	230/21.6	
,	230/5.0	

These conditions have been found satisfactory for the materials listed

Connections:

• Electrical: 220/240 VAC @ 50 HZ or

110 VAC @ 60 HZ

please specify when ordering

Dimensions:

H: 480mmW: 430mm

• **D:** 270mm

Weight: 27kg

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