



**Creepage Distance**  
The Shortest Distance along the surface of the solid insulating material between two conductive surface is called Creepage Distance.

**Note:**  
1. All Dimensions are in mm only until unless specified.  
2. Tolerances are applicable as per Attached DIN std.  
3. All Sharp edges must be round.  
4. Drafts angles should be within defined limits.

**GENERAL TECHNICAL PARAMETERS**

1. No. of Ribs	: 2
2. Voltage Rating	: 6.8 KV
3. Creepage Distance	: 112 mm
4. Compressive Strength	: 15000 Kgf
5. Cantilever Strength	: 470 Kgf
6. Pulling Strength	: 1310 Kgf
7. Torque	: 860 Kgf.cm
8. IR Value	: 20 x 10 <sup>6</sup> MΩ
9. Breakdown Voltage	: 40 KV

**Note:**  
All above tests are based on the testing of the products produced from the standard formulation compounded material. As compound is heterogeneous therefore the above values may differ by ±5%.

<b>POWERMAT</b>		TITLE	MV INSULATORS	CUSTOMER		REV. NO.	DATE	Amendments
POWERGAM ELECTRICALS (P) LTD. ADDRESS: 2001, 2008 & 2010 Hitech Company F-9, SHOPPING CENTER - I MANSA ROVER GARDEN NEW DELHI - 110015 NR. OBC BANK Ph. No. : 011-2546125 25175575, 25116836 http://www.powermatindia.com		PART CODE	PDMV 6075	CUST. CODE				
MATERIAL: DOUGH MOULDING COMPOUND		COLOUR	Black	DATE	05/09/2016			
DWG. NO.		DRAWN BY	R.Kapoor	APPROVED BY	K.S.B.			
SCALE		SPECIAL INSTRUCTIONS:						
N.T.S.								
GEN. TOL. CHART (as per DIN ISO 2768)		In. DIM	Injection Moulding Part	Comp. Moulding Part	Metal Part			
		6 to 30	± 0.2 mm	± 0.3 mm	± 0.2mm			
		30 to 120	± 0.3 mm	± 0.8 mm	± 0.3mm			
		120 to 400	± 1.2 mm	± 1.3 mm	± 0.5mm			
		400 to 1000	± 2.0 mm	± 2.5 mm	± 0.8mm			

Sl. No.	Particulars	Specs.	Qty.	Remarks
1.	DMC Material	DR 20	1	
2.	INSERT	MS, ZINC PLATED	4	3 TOP & 1 BOTTOM

  

DOUGH MOULDING COMPOUND PROPERTIES				
PROPERTIES	Units	Test Methods	Values	Testing Plan
Specific Gravity	-	ASTM D-792	1.9	Own Test Lab
Glass Contents	%	N/A	20	Additive
Water Absorptions(24 Hrs)	%	ASTM D-570	0.15	Own Test Lab
Tensile Strength	Kgf/cm <sup>2</sup>	ASTM D-638	400	Own Test Lab
Flexural Strength	Kgf/cm <sup>2</sup>	ASTM D-790	900	Own Test Lab
Impact Strength IZOD	J/m	ASTM D-256	250	Own Test Lab
Compressive Strength	Kgf/cm <sup>2</sup>	ASTM D-695	1500	Own Test Lab
Dielectric Strength	KV/min	ASTM D1149	10	Own Test Lab/UL
Compressive Tensile Index	Volts	BS-5901	>600	Own Test Lab/UL
Arc Resistance	Sec.	ASTM D-495	180	Own Test Lab/UL
Flammability Index	UL-94	V-0		Own Test Lab/UL
GWIT (Thickness 3mm)	°C	IEC-60695-2-13	960	Own Test Lab/UL
Hot Wire Ignition	Sec.	ASTM D-3874	>120	Own Test Lab/UL
RTI Elec. (Thickness 3mm)	°C	UL-746B	130	UL
RTI Elec. (Thickness 3mm)	°C	UL-746A	105	UL
HVTR	mm/min	UL-746A	0 Through 10	UL
High Amp. Arc Ignition	mean no of arcs	UL-746A	>120	UL
Material Group	-	IEC-60112	1	Based On CTT
Pollution Degree	-	IEC-60950	3	Based On Std.
Insulation Class	-	IEC 3403	B	Based On Std.
Working Temperature	°C	-	(+40 to 130	Generic Prop.
UL File No. -	E249670			