**COMPTECH**

**Department of Aerospace Engineering**

Indian Institute of Technology Madras

Chennai - 600 036, INDIA.

**Dr. R.VELMURUGAN**

Professor

**Ref : CTF/10-11/002/1** **Date : 10/06/10**

# TEST REPORT

| | |
|---|---|
| **Name and Address to whom this report is issued** | M.N.POLYESTYER (INDIA) PVT. LTD.,<br>No. 18/108-A, 7th Street, Tatabad,<br>Coimbatore. |
| **Request for Test Through letter** | Ref : Your Letter Date : 26/04/10 |
| **Particulars of Material Supplied** | General Purpose Resin.<br>Code No. MNP -0051 |

| SL NO | PROPERTY | UNIT | INDIVIDUAL TEST RESULT | AVERAGE TEST RESULT | TEST METHOD |
|---|---|---|---|---|---|
| | RESIN PROPERTIES | | | | |
| 1. | Specific Weight | kN/m³ | 11.002 | 11.002 | ASTM D1475 |
| 2. | Viscosity | cp | 635, 640,640 | 638 | ASTM D2393 |
| | CASTED RESIN PROPERTIES | | | | |
| 1. | Barcol Hardness | BIU | 42, 46, 44, 45,46 | 45 | ASTM D2583 |
| 2. | Tensile Strength | N/mm² | 41, 40, 40,<br>41, 39 | 40 | ASTM D638 |
| 3. | Tensile Modulus | N/mm² | 2858, 2967, 2885,<br>2941, 2751 | 2880 | ASTM D638 |
| 4. | Elongation at break | % | 1.65, 1.55, 1.64,<br>1.68, 1.59 | 1.60 | ASTM D638 |
| 5. | Flexural Strength | N/mm² | 69,67,55, 56,56 | 61 | ASTM D790 |
| 6. | Flexural Modulus | N/mm² | 3310,4134,4187<br>4321,4147 | 4020 | ASTM D790 |
| 7. | Compressive Strength | N/mm² | 129, 138,126,<br>136,143 | 134 | ASTM D695 |

**Seal**

R. VELMURUGAN
PROFESSOR
DEPT. OF AEROSPACE ENGINEERING
IIT MADRAS, CHENNAI-600 036.

**Signature**

**Name** Dr.R.Velmurugan

This Report is a technical assessment based on tests conducted at the Composites Technology Centre
No liability must be assumed or implied as any of the results given above.

☎ : 044 - 2257 4017 / 4915 Fax : 044 - 2257 0545 / 0039 Email : rvel@ae.iitm.ac.in

Reconstructed reading copy - original signature/seal excerpts retained; original scan on page 2.

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|---|---|---|---|---|---|
| | RESIN PROPERTIES | | | | |
| 1. | Specific Weight | kN/m $^3$ | 11.002 | 11.002 | ASTM D 1475 |
| 2. | Viscosity | cp | 635, 640,640 | 638 | ASTM D 2393 |
| | CASTED RESIN PROPERTIES | | | | |
| 1. | Barcol Hardness | BIU | 42, 46, 44, 45,46 | 45 | ASTM D2583 |
| 2. | Tensile Strength | N/mm$^2$ | 41, 40, 40, 41, 39 | 40 | ASTM D638 |
| 3. | Tensile Modulus | N/mm$^2$ | 2858, 2967, 2885, 2941, 2751 | 2880 | ASTM D638 |
| 4. | Elongation at break | % | 1.65, 1.55, 1.64, 1.68, 1.59 | 1.60 | ASTM D638 |
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