

# Vi-Chem PVC NFC87-80E

Rigid Polyvinyl Chloride

Vi-Chem Corporation

Message:

Vi-Chem PVC NFC87-80E is a Rigid Polyvinyl Chloride material. It is available in North America for extrusion. Primary attribute of Vi-Chem PVC NFC87-80E: Rigid.

| General Information                                  |                                       |                   |             |
|------------------------------------------------------|---------------------------------------|-------------------|-------------|
| Features                                             | Medium Rigidity                       |                   |             |
| Forms                                                | Pellets                               |                   |             |
| Processing Method                                    | Extrusion                             |                   |             |
| Physical                                             | Nominal Value                         | Unit              | Test Method |
| Specific Gravity                                     | 1.35                                  | g/cm <sup>3</sup> | ASTM D792   |
| Hardness                                             | Nominal Value                         | Unit              | Test Method |
| Durometer Hardness (Shore A, 15 sec)                 | 85                                    |                   | ASTM D2240  |
| Mechanical                                           | Nominal Value                         | Unit              | Test Method |
| Tensile Strength (Yield)                             | 16.7                                  | MPa               | ASTM D638   |
| Tensile Elongation (Break)                           | 270                                   | %                 | ASTM D638   |
| Elastomers                                           | Nominal Value                         | Unit              | Test Method |
| Tear Strength <sup>1</sup>                           | 59.0                                  | kN/m              | ASTM D1004  |
| Aging                                                | Nominal Value                         | Unit              | Test Method |
| Change in Tensile Strength in Air (80°C, 1000 hr)    | 16                                    | %                 | ASTM D412   |
| Change in Ultimate Elongation in Air (80°C, 1000 hr) | -23                                   | %                 | ASTM D412   |
| Change in Mass in Air (80.0°C, 1000 hr)              | 7.7                                   | %                 | ASTM D412   |
| Thermal                                              | Nominal Value                         |                   |             |
| Cold Flexibility (-30°C, 2.50 cm) <sup>2</sup>       | No cracks                             |                   |             |
| Stain Resistance                                     |                                       |                   |             |
| -- <sup>3</sup>                                      | 1.38                                  |                   |             |
| -- <sup>4</sup>                                      | No stain                              |                   |             |
| NOTE                                                 |                                       |                   |             |
| 1.                                                   | 50 mm/min                             |                   |             |
| 2.                                                   | GM9503                                |                   |             |
| 3.                                                   | Asphalt, Delta E                      |                   |             |
| 4.                                                   | Hydrogen Sulfide, FLTM 102-01, AATCC5 |                   |             |

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