

# Haysite Plastics HCR-110

Thermoset Polyester  
Haysite Reinforced Plastics

Message:

Haysite Plastics HCR-110 is a Thermoset Polyester product. It is available in North America.

Characteristics include:

Flame Rated  
Chemical Resistant  
Corrosion Resistant

| General Information                           |                           |                   |             |
|---|---------------------------|-------------------|-------------|
| Features                                      | Good Chemical Resistance  |                   |             |
|   | Good Corrosion Resistance |                   |             |
| Appearance                                    | Grey                      |                   |             |
| Forms   | Sheet                     |                   |             |
| Physical                                      | Nominal Value             | Unit              | Test Method |
| Specific Gravity                              | 1.83                      | g/cm <sup>3</sup> | ASTM D792   |
| Water Absorption (Equilibrium)                | 0.20                      | %                 | ASTM D570   |
| Hardness                                      | Nominal Value             | Unit              | Test Method |
| Barcol Hardness                               | 53                        |                   |             |
| Mechanical                                    | Nominal Value             | Unit              | Test Method |
| Tensile Strength <sup>1</sup>                 | 63.4                      | MPa               | ASTM D638   |
| Flexural Strength <sup>2</sup>                | 152                       | MPa               | ASTM D790   |
| Compressive Strength <sup>3</sup>             | 229                       | MPa               | ASTM D695   |
| Shear Strength                                | 92.0                      | MPa               | ASTM D229   |
| Impact  | Nominal Value             | Unit              | Test Method |
| Notched Izod Impact <sup>4</sup>              | 320                       | J/m               | ASTM D256   |
| Electrical                                    | Nominal Value             | Unit              | Test Method |
| Dielectric Strength <sup>5</sup> (Air/Oil)    | 14                        | kV/mm             | ASTM D149   |
| Arc Resistance                                | 192                       | sec               | ASTM D495   |
| Dielectric Strength - in Air/Oil <sup>6</sup> | 54600                     | V                 | ASTM D149   |
| Flame Resistance                              |                           |                   | ASTM D229   |
| Burning Time                                  | 35.0                      | sec               |             |
| Ignition Time                                 | 97.0                      | sec               |             |
| Flammability                                  | Nominal Value             | Unit              | Test Method |
| Flame Rating                                  | V-0                       |                   | UL 94       |
| NOTE  |                           |                   |             |
| 1.  | Lengthwise                |                   |             |
| 2.  | Lengthwise                |                   |             |
| 3.  | Flatwise                  |                   |             |

|    |               |
|----|---------------|
| 4. | Lengthwise    |
| 5. | Perpendicular |
| 6. | Parallel      |

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