

**UNION  
CARBIDE****NEW PRODUCT DATA****UNION CARBIDE CORPORATION • PLASTICS DIVISION • 270 PARK AVENUE, NEW YORK, N. Y. 10017**

BAKELITE Vinyl Compound for Wire and Cable

PRODUCT DESIGNATION

QFD-9175

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BAKELITE vinyl compound QFD-9175 has been developed to meet the Underwriter's Laboratories requirements for 90°C. appliance wire in a 1/32" wall construction. It offers a optimum combination of good extrudability and physical and electrical properties.

Typical Properties (0.075" Plaques)

| <u>Property</u>       | <u>Test Method</u> | <u>Value</u> |
|-----------------------|--------------------|--------------|
| Specific Gravity      | D792               | 1.36         |
| Durometer A           | D676               | 78           |
| Tensile Strength, psi | D412               | 2300         |
| Elongation, %         | D412               | 320          |
| Brittle Temp., °C.    | D746               | -12          |
| Stiffness @ 23°C.     | D1043              | 1400         |

#14 A.W.G. Wire 2/64" Wall InsulationOriginal

|                       |      |      |
|-----------------------|------|------|
| Tensile Strength, psi | D412 | 2800 |
| Elongation, %         | D412 | 330  |

Aged 7 days @ 121°C. ( % Retention)

|                       |      |     |
|-----------------------|------|-----|
| Tensile Strength, psi | D412 | 108 |
| Elongation, %         | D412 | 88  |

|                                                  |                       |
|--------------------------------------------------|-----------------------|
| Deformation (500 gms @ 120°C.), % U. L. Standard | 32                    |
| Volume Resistivity @ 15.5°C.                     | 1.0 x 10 <sup>8</sup> |
|                                                  | 1.2 x 10 <sup>7</sup> |
|                                                  | 1.0 x 10 <sup>6</sup> |
|                                                  | 8.2 x 10 <sup>4</sup> |
|                                                  | 23                    |
|                                                  | 50                    |
|                                                  | 90                    |

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Recommended Extrusion Temperatures, °F.

|               |        |        |
|---------------|--------|--------|
| Barrel        | Rear   | 300    |
|               | Center | 330    |
|               | Front  | 360    |
| Breaker Plate |        | 360    |
| Head          |        | 360    |
| Screw         |        | 40-140 |