

Product Texts

Super High Flow, High heat Resistance and Low Warp for Thin Parts.

Vectra S475 is a 32% glass fiber and mineral reinforced grade.

Chemical abbreviation according to ISO 1043-1 : LCP Inherently flame retardant UL-Listing V-0 in natural and black at 0.1mm thickness per UL 94 flame testing. Relative-Temperature-Index (RTI) according to UL 746B: electricals 130°C, mechanicals 130°C. UL = Underwriters Laboratories (USA)

Flammability at thickness h (0.1 V-0 mm)

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|------|---------------|
|-------------------------------------|-------|------|---------------|

ISO Data

| | | | |
|--|------------|---|-----------------|
| ^[C] Molding shrinkage, normal | 0.4 | % | ISO 294-4, 2577 |
|--|------------|---|-----------------|

[C]: CAMPUS

| Mechanical properties | Value | Unit | Test Standard |
|-----------------------|-------|------|---------------|
|-----------------------|-------|------|---------------|

ISO Data

| | | | |
|--------------------------------|--------------|-----|---------|
| ^[C] Tensile Modulus | 13000 | MPa | ISO 527 |
|--------------------------------|--------------|-----|---------|

| | | | |
|--------------------------------|------------|-----|---------|
| ^[C] Stress at break | 140 | MPa | ISO 527 |
|--------------------------------|------------|-----|---------|

| | | | |
|--------------------------------|------------|---|---------|
| ^[C] Strain at break | 1.9 | % | ISO 527 |
|--------------------------------|------------|---|---------|

| | | | |
|--|-------------|-------------------|-------------|
| ^[C] Charpy impact strength, +23°C | 14.5 | kJ/m ² | ISO 179/1eU |
|--|-------------|-------------------|-------------|

| | | | |
|--|----------|-------------------|-------------|
| ^[C] Charpy notched impact strength, +23°C | 4 | kJ/m ² | ISO 179/1eA |
|--|----------|-------------------|-------------|

[C]: CAMPUS

| Thermal properties | Value | Unit | Test Standard |
|--------------------|-------|------|---------------|
|--------------------|-------|------|---------------|

ISO Data

| | | | |
|--|------------|----|----------------|
| ^[C] Melting temperature, 10°C/min | 350 | °C | ISO 11357-1/-3 |
|--|------------|----|----------------|

| | | | |
|---|------------|----|-------------|
| ^[C] Temp. of deflection under load, 1.80 MPa | 305 | °C | ISO 75-1/-2 |
|---|------------|----|-------------|

| | | | |
|---|------------|----|-------------|
| ^[C] Temp. of deflection under load, 8.00 MPa | 213 | °C | ISO 75-1/-2 |
|---|------------|----|-------------|

| | | | |
|--|-----------|-------|----------------|
| ^[C] Coeff. of linear therm. expansion, parallel | 10 | E-6/K | ISO 11359-1/-2 |
|--|-----------|-------|----------------|

| | | | |
|--|-----------|-------|----------------|
| ^[C] Coeff. of linear therm. expansion, normal | 25 | E-6/K | ISO 11359-1/-2 |
|--|-----------|-------|----------------|

| | | | |
|--|------------|-------|-----------------|
| ^[C] Burning Behav. at thickness h | V-0 | class | IEC 60695-11-10 |
|--|------------|-------|-----------------|

| | | | |
|------------------|------------|----|---|
| Thickness tested | 0.1 | mm | - |
|------------------|------------|----|---|

[C]: CAMPUS

| Electrical properties | Value | Unit | Test Standard |
|-----------------------|-------|------|---------------|
|-----------------------|-------|------|---------------|

ISO Data

| | | | |
|--|------------|---|---------------|
| ^[C] Relative permittivity, 1MHz | 3.7 | - | IEC 62631-2-1 |
|--|------------|---|---------------|

| | | | |
|---|-----------|-----|---------------|
| ^[C] Dissipation factor, 1MHz | 80 | E-4 | IEC 62631-2-1 |
|---|-----------|-----|---------------|

[C]: CAMPUS

| Other properties | Value | Unit | Test Standard |
|------------------|-------|------|---------------|
|------------------|-------|------|---------------|

| | | | |
|------------------------|-------------|-------------------|----------|
| ^[C] Density | 1650 | kg/m ³ | ISO 1183 |
|------------------------|-------------|-------------------|----------|

[C]: CAMPUS

Characteristics

Delivery form

Black, Natural Color

Features

Low Warpage

Special Characteristics

Flame retardant, Heat stabilized or stable to heat

Regional Availability

North America, Europe, Asia Pacific