

Eastman Vitiva PC715 PET (discontinued **)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Unreinforced

Material Notes:

Vitiva PET PC715 is an exceptionally clear PET polyester that contains a UV light protection package chemically bound to the backbone of the polymer. This non-extractable UV inhibitor absorbs damaging wavelengths of light, protecting the contents of the package. In addition, Vitiva PET allows brand owners to achieve uniquely shaped containers with extraordinary clarity thereby showcasing the contents of the package. Applications/Uses Cosmetics Health and nutrition containers Household products containers Pharmaceutical containers Custom bottles Hotfilled food and beverage containers Personal care Key Attributes Chemical compatibility with packaged goods Drop-in replacement for standard PET Exceptional drop impact strength Meets FDA regulations for food contact Unlimited recyclability Excellent clarity Excellent oxygen gas barrier FDA-compliant UV light barrier Virtually unlimited bottle design freedom

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Vitiva-PC715-PET-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---------------------|---------------------------|---------------------------------|
| Bulk Density | 0.818 g/cc | 0.0296 lb/in ³ | Poured; ASTM D1895 |
| | 0.888 g/cc | 0.0321 lb/in ³ | Vibrated; ASTM D1895 |
| Density | 1.40 g/cc | 0.0506 lb/in ³ | Crystalline Density; ASTM D1505 |
| Melt Density | 1.20 g/cc | 0.0434 lb/in ³ | ASTM D1238 |
| | @Temperature 285 °C | @Temperature 545 °F | |
| Particle Size | 2500 µm | 2500 µm | Pellet Size |
| Viscosity Measurement | 0.76 - 0.80 | 0.76 - 0.80 | Intrinsic; VGAS-A-AN-G-V-1 |

| Thermal Properties | Metric | English | Comments |
|------------------------|----------------------|---------------------|------------|
| Heat of Fusion | 63.0 J/g | 27.1 BTU/lb | ASTM E793 |
| Specific Heat Capacity | 1.20 J/g-°C | 0.287 BTU/lb-°F | ASTM E1269 |
| | 1.40 J/g-°C | 0.335 BTU/lb-°F | ASTM E1269 |
| | @Temperature 80.0 °C | @Temperature 176 °F | |
| | 1.50 J/g-°C | 0.359 BTU/lb-°F | ASTM E1269 |
| | @Temperature 100 °C | @Temperature 212 °F | |
| | 1.80 J/g-°C | 0.430 BTU/lb-°F | ASTM E1269 |
| @Temperature 200 °C | @Temperature 392 °F | | |
| | 2.00 J/g-°C | 0.478 BTU/lb-°F | ASTM E1269 |
| | @Temperature 280 °C | @Temperature 536 °F | |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Optical Properties | Metric | English | Comments |
|--------------------|---|---|---|
| UV Transmittance | <= 7.0 % @Thickness 0.229 mm, Wavelength 370 nm | <= 7.0 % @Thickness 0.00900 in, Wavelength 370 nm | well-oriented bottle sidewalls; VCSC-A-AS-G-CA-0005 |

| Descriptive Properties | Value | Comments |
|------------------------|------------|---------------------|
| Acetaldehyde | <3ppm | VKCA-A-AS-G-GC-0001 |
| Color, CIE a* | -1.5 ± 2.0 | VGAS-A-AN-G-RS-001 |
| Color, CIE b* | 0.5 ± 1.7 | VGAS-A-AN-G-RS-001 |
| Color, CIE L* | 77.8 min | VGAS-A-AN-G-RS-001 |
| Fines, wt%, max | 0.1 | |
| Pellet Shape | Cubical | |

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