

DuPont Performance Polymers Hytrel® 4068FG Polyester Elastomer TPC-ET (Unverified Data**)

Category : Polymer , Thermoplastic , Polyester, TP , Polyester Thermoplastic Elastomer

Material Notes:

40 Shore D High Performance Polyester Elastomer Developed for Food Contact Applications Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-4068FG-Polyester-Elastomer-TPC-ET-nbspUnverified-Data.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--|--|----------------------------------|
| Density | 1.11 g/cc | 0.0401 lb/in ³ | ISO 1183 |
| Water Absorption | 0.70 % @Thickness 2.00 mm | 0.70 % @Thickness 0.0787 in | Sim. to ISO 62 |
| Moisture Absorption | 0.300 % @Thickness 2.00 mm | 0.300 % @Thickness 0.0787 in | Sim. to ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0080 cm/cm | 0.0080 in/in | ISO 294-4 2577 |
| Linear Mold Shrinkage, Transverse | 0.0080 cm/cm | 0.0080 in/in | ISO 294-4 2577 |
| Melt Flow | 8.5 g/10 min @Load 2.16 kg, Temperature 220 °C | 8.5 g/10 min @Load 4.76 lb, Temperature 428 °F | ISO 1133 |
| | 9.0 g/10 min @Load 2.16 kg, Temperature 220 °C | 9.0 g/10 min @Load 4.76 lb, Temperature 428 °F | cm ³ /10min; ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------------------------|---------------------------|--------------|
| Hardness, Shore D | 33 | 33 | 15s; ISO 868 |
| | <= 37 | <= 37 | ISO 868 |
| Tensile Strength at Break | 29.0 MPa | 4210 psi | ISO 527-1/-2 |
| Tensile Stress | 2.40 MPa @Strain 5.00 % | 348 psi @Strain 5.00 % | ISO 527-1/-2 |
| | 3.50 MPa @Strain 10.0 % | 508 psi @Strain 10.0 % | ISO 527-1/-2 |
| | 6.70 MPa | 972 psi | |

| Mechanical Properties | Metric @Strain 50.0 % | English @Strain 50.0 % | ISO 527-1/-2 Comments |
|-----------------------|---|--|--------------------------|
| | 1.40 MPa | 203 psi | |
| | @Strain 7.05 %, Temperature 120 °C | @Strain 7.05 %, Temperature 248 °F | TPE; ISO 11403-1 -2 |
| | 1.61 MPa | 234 psi | |
| | @Strain 6.85 %, Temperature 100 °C | @Strain 6.85 %, Temperature 212 °F | TPE; ISO 11403-1 -2 |
| | 1.66 MPa | 241 psi | |
| | @Strain 6.61 %, Temperature 90.0 °C | @Strain 6.61 %, Temperature 194 °F | TPE; ISO 11403-1 -2 |
| | 2.16 MPa | 313 psi | |
| | @Strain 7.12 %, Temperature 60.0 °C | @Strain 7.12 %, Temperature 140 °F | TPE; ISO 11403-1 -2 |
| | 2.20 MPa | 319 psi | |
| | @Strain 16.44 %, Temperature 120 °C | @Strain 16.44 %, Temperature 248 °F | TPE; ISO 11403-1 -2 |
| | 2.38 MPa | 345 psi | |
| | @Strain 7.13 %, Temperature 40.0 °C | @Strain 7.13 %, Temperature 104 °F | TPE; ISO 11403-1 -2 |
| | 2.39 MPa | 347 psi | |
| | @Strain 5.61 %, Temperature 0.000 °C | @Strain 5.61 %, Temperature 32.0 °F | TPE; ISO 11403-1 -2 |
| | 2.60 MPa | 377 psi | |
| | @Strain 26.51 %, Temperature 120 °C | @Strain 26.51 %, Temperature 248 °F | TPE; ISO 11403-1 -2 |
| | 2.66 MPa | 386 psi | |
| | @Strain 16.95 %, Temperature 100 °C | @Strain 16.95 %, Temperature 212 °F | TPE; ISO 11403-1 -2 |
| | 2.81 MPa | 408 psi | |
| | @Strain 36.58 %, Temperature 120 °C | @Strain 36.58 %, Temperature 248 °F | TPE; ISO 11403-1 -2 |
| | 2.81 MPa | 408 psi | |
| | @Strain 16.36 %, Temperature 90.0 °C | @Strain 16.36 %, Temperature 194 °F | TPE; ISO 11403-1 -2 |
| | 2.93 MPa | 425 psi | |
| | @Strain 45.98 %, Temperature 120 °C | @Strain 45.98 %, Temperature 248 °F | TPE; ISO 11403-1 -2 |

| Mechanical Properties | 3.03 MPa Metric | 439 psi English | Comments TPE; ISO 11403-1 -2 |
|-----------------------|---|---|---------------------------------|
| | @Strain 8.37 %, Temperature 23.0 °C | @Strain 8.37 %, Temperature 73.4 °F | |
| | 3.05 MPa | 442 psi | TPE; ISO 11403-1 -2 |
| | @Strain 59.4 %, Temperature 120 °C | @Strain 59.4 %, Temperature 248 °F | |
| | 3.14 MPa | 455 psi | TPE; ISO 11403-1 -2 |
| | @Strain 72.15 %, Temperature 120 °C | @Strain 72.15 %, Temperature 248 °F | |
| | 3.16 MPa | 458 psi | TPE; ISO 11403-1 -2 |
| | @Strain 27.05 %, Temperature 100 °C | @Strain 27.05 %, Temperature 212 °F | |
| | 3.22 MPa | 467 psi | TPE; ISO 11403-1 -2 |
| | @Strain 85.58 %, Temperature 120 °C | @Strain 85.58 %, Temperature 248 °F | |
| | 3.31 MPa | 480 psi | TPE; ISO 11403-1 -2 |
| | @Strain 98.33 %, Temperature 120 °C | @Strain 98.33 %, Temperature 248 °F | |
| | 3.40 MPa | 493 psi | TPE; ISO 11403-1 -2 |
| | @Strain 26.8 %, Temperature 90.0 °C | @Strain 26.8 %, Temperature 194 °F | |
| | 3.43 MPa | 497 psi | TPE; ISO 11403-1 -2 |
| | @Strain 37.15 %, Temperature 100 °C | @Strain 37.15 %, Temperature 212 °F | |
| | 3.44 MPa | 499 psi | TPE; ISO 11403-1 -2 |
| | @Strain 117.8 %, Temperature 120 °C | @Strain 117.8 %, Temperature 248 °F | |
| | 3.54 MPa | 513 psi | TPE; ISO 11403-1 -2 |
| | @Strain 131.22 %, Temperature 120 °C | @Strain 131.22 %, Temperature 248 °F | |
| | 3.54 MPa | 513 psi | TPE; ISO 11403-1 -2 |
| | @Strain 16.62 %, Temperature 60.0 °C | @Strain 16.62 %, Temperature 140 °F | |
| | 3.60 MPa | 522 psi | TPE; ISO 11403-1 -2 |
| | @Strain 47.25 %, Temperature 100 °C | @Strain 47.25 %, Temperature 212 °F | |
| | 3.67 MPa | 532 psi | TPE; ISO 11403-1 -2 |
| | @Strain 147.33 %, Temperature 120 °C | @Strain 147.33 %, Temperature 248 °F | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|---|---|---------------------|
| | 3.73 MPa | 541 psi | |
| | @Strain 36.55 %, Temperature 90.0 °C | @Strain 36.55 %, Temperature 194 °F | TPE; ISO 11403-1 -2 |
| | 3.74 MPa | 542 psi | |
| | @Strain 60.23 %, Temperature 100 °C | @Strain 60.23 %, Temperature 212 °F | TPE; ISO 11403-1 -2 |
| | 3.86 MPa | 560 psi | |
| | @Strain 73.94 %, Temperature 100 °C | @Strain 73.94 %, Temperature 212 °F | TPE; ISO 11403-1 -2 |
| | 3.87 MPa | 561 psi | |
| | @Strain 170.15 %, Temperature 120 °C | @Strain 170.15 %, Temperature 248 °F | TPE; ISO 11403-1 -2 |
| | 3.92 MPa | 569 psi | |
| | @Strain 46.3 %, Temperature 90.0 °C | @Strain 46.3 %, Temperature 194 °F | TPE; ISO 11403-1 -2 |
| | 3.93 MPa | 570 psi | |
| | @Strain 16.63 %, Temperature 40.0 °C | @Strain 16.63 %, Temperature 104 °F | TPE; ISO 11403-1 -2 |
| | 3.98 MPa | 577 psi | |
| | @Strain 86.92 %, Temperature 100 °C | @Strain 86.92 %, Temperature 212 °F | TPE; ISO 11403-1 -2 |
| | 4.08 MPa | 592 psi | |
| | @Strain 6.86 %, Temperature -20.0 °C | @Strain 6.86 %, Temperature -4.00 °F | TPE; ISO 11403-1 -2 |
| | 4.10 MPa | 595 psi | |
| | @Strain 100.63 %, Temperature 100 °C | @Strain 100.63 %, Temperature 212 °F | TPE; ISO 11403-1 -2 |
| | 4.11 MPa | 596 psi | |
| | @Strain 58.83 %, Temperature 90.0 °C | @Strain 58.83 %, Temperature 194 °F | TPE; ISO 11403-1 -2 |
| | 4.15 MPa | 602 psi | |
| | @Strain 196.33 %, Temperature 120 °C | @Strain 196.33 %, Temperature 248 °F | TPE; ISO 11403-1 -2 |
| | 4.25 MPa | 616 psi | |
| | @Strain 72.06 %, Temperature 90.0 °C | @Strain 72.06 %, Temperature 194 °F | TPE; ISO 11403-1 -2 |
| | 4.27 MPa | 619 psi | |

| Mechanical Properties | Metric @Strain 120.1 %, Temperature 100 °C | English @Strain 120.1 %, Temperature 212 °F | TPE; ISO 11403-1 -2 Comments |
|-----------------------|--|---|---------------------------------|
| | 4.30 MPa | 624 psi | |
| | @Strain 26.8 %, Temperature 60.0 °C | @Strain 26.8 %, Temperature 140 °F | TPE; ISO 11403-1 -2 |
| | 4.39 MPa | 637 psi | |
| | @Strain 85.28 %, Temperature 90.0 °C | @Strain 85.28 %, Temperature 194 °F | TPE; ISO 11403-1 -2 |
| | 4.40 MPa | 638 psi | |
| | @Strain 133.81 %, Temperature 100 °C | @Strain 133.81 %, Temperature 212 °F | TPE; ISO 11403-1 -2 |
| | 4.53 MPa | 657 psi | |
| | @Strain 98.51 %, Temperature 90.0 °C | @Strain 98.51 %, Temperature 194 °F | TPE; ISO 11403-1 -2 |
| | 4.54 MPa | 658 psi | |
| | @Strain 14.19 %, Temperature 0.000 °C | @Strain 14.19 %, Temperature 32.0 °F | TPE; ISO 11403-1 -2 |
| | 4.58 MPa | 664 psi | |
| | @Strain 150.4 %, Temperature 100 °C | @Strain 150.4 %, Temperature 212 °F | TPE; ISO 11403-1 -2 |
| | 4.70 MPa | 682 psi | |
| | @Strain 36.29 %, Temperature 60.0 °C | @Strain 36.29 %, Temperature 140 °F | TPE; ISO 11403-1 -2 |
| | 4.72 MPa | 685 psi | |
| | @Strain 118 %, Temperature 90.0 °C | @Strain 118 %, Temperature 194 °F | TPE; ISO 11403-1 -2 |
| | 4.77 MPa | 692 psi | |
| | @Strain 26.81 %, Temperature 40.0 °C | @Strain 26.81 %, Temperature 104 °F | TPE; ISO 11403-1 -2 |
| | 4.85 MPa | 703 psi | |
| | @Strain 173.48 %, Temperature 100 °C | @Strain 173.48 %, Temperature 212 °F | TPE; ISO 11403-1 -2 |
| | 4.88 MPa | 708 psi | |
| | @Strain 131.23 %, Temperature 90.0 °C | @Strain 131.23 %, Temperature 194 °F | TPE; ISO 11403-1 -2 |
| | 4.93 MPa | 715 psi | |
| | @Strain 20.43 %, Temperature 23.0 °C | @Strain 20.43 %, Temperature 73.4 °F | TPE; ISO 11403-1 -2 |

| Mechanical Properties | 4.96 MPa Metric | 719 psi English | Comments |
|-----------------------|--|---|---------------------|
| | @Strain 45.79 %, Temperature 60.0 °C | @Strain 45.79 %, Temperature 140 °F | TPE; ISO 11403-1 -2 |
| | 5.06 MPa | 734 psi | |
| | @Strain 147.24 %, Temperature 90.0 °C | @Strain 147.24 %, Temperature 194 °F | TPE; ISO 11403-1 -2 |

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