



DOW VERSIFY™ Plastomers and Elastomers are a family of specialty propylene-ethylene copolymers. VERSIFY™ offers a combination of excellent optics, sealing and hot tack performance plus elasticity, flexibility, softness and compatibility in blends for film, fiber, injection molding, extrusion coating, sealants and compounding applications. VERSIFY™ can be used to impact modify clarified polypropylene while maintaining excellent clarity.

| PROPERTY | ASTM Method | Versify 2000 | Versify 2200 | Versify 2300 | Versify 2400 | Versify 3000 | Versify 3200 | Versify 3300 | Versify 3401 | Versify 4200 | Versify 4301 |
|--|-------------|-----------------------|-----------------------|--|------------------------------------|-------------------------------|-------------------------------|--------------------------------|---|--------------------------------------|------------------------------------|
| Processing Method | | Blown Film | Blown Film | Blown Film, Extrusion, Calendering | Blown Film, Extrusion, Calendering | Cast Film | Cast Film | Cast Film | Injection Molding, Cast Film | Extrusion Coating, Injection Molding | Injection Molding |
| Typical Applications | | Food & Specialty Film | Food & Specialty Film | TPEs, Industrial Films, Filled Compounds | TPEs, Filled Compounds | General Purpose, BOPP Sealant | General Purpose, BOPP Sealant | General Purpose, Elastic Films | Impact Modification, Stretch Cling Film | General Purpose, Fibers | Impact Modification, Masterbatches |
| Density, g/cc | D792 | 0.888 | 0.876 | 0.867 | 0.863 | 0.891 | 0.876 | 0.867 | 0.863 | 0.876 | 0.868 |
| Melt Flow Rate, g/10 min. 230°C/2.16kg | D1238 | 2 | 2 | 2 | 2 | 8 | 8 | 8 | 8 | 25 | 25 |
| Total Crystallinity, % | Dow Method | 35 | 21 | 13 | 12 | 44 | 30 | 11 | 14 | 29 | 16 |
| Hardness, Shore A | D2240 | 96 | 92 | 88 | 79 | 96 | 94 | 85 | 72 | 94 | 84 |
| Hardness, Shore D | D2240 | 54 | 39 | 32 | 26 | 60 | 44 | 31 | 22 | 42 | 29 |
| Flexural Modulus, 1% Secant, MPa | D790 | 359 | 100 | 42 | 26 | 389 | 131 | 39 | 23 | 112 | 36 |
| Tensile Strength at Break, MPa | D638 | 26 | 21 | 19 | 6 | 27 | 22 | 20 | 7 | 23 | 3 |
| Tensile Elongation at Break, % | D638 | 680 | 690 | 730 | 11 | 730 | 840 | 750 | 600 | 850 | 39 |
| Haze at 2mm thickness, % | D1003 | 18 | 14 | 6 | 5 | 9 | 4 | 4 | 3 | 5 | 2 |
| Glass Transition Temp, °C | Dow Method | -17 | -23 | -27 | -30 | -14 | -23 | -27 | -30 | -23 | -27 |
| Vicat Softening Temp, °C | | 94 | 66 | 43 | 42 | 105 | 59 | 42 | <20 | 61 | 51 |
| DSC Melting Point, °C | Dow Method | 107 | 82 | 66 | 55 | 108 | 85 | 62 | 97 | 84 | 64 |

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