Eastman™ Adhesives

Rosin Derivatives

**Stabilized Rosin & Rosin esters**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Softening Point R&B, ℃ | Color USRG | Color,Gardner (50% in Toluene) | Acid No. | Applications |
| Permalyn 5095C | 88 | - | 2~4 | 10 | Hot-melt Adhesives, PSA, Flooring Adhesives, Dipilatory Wax Asphalt & Bitumen Modification, Concrete Curing, etc. |
| Permalyn 5110C | 101 | - | 2~6 | 16 | Hot-melt Adhesives, PSA, Flooring Adhesives, Wax Modification, Rubber Compounding, etc. |
| Permalyn 7110C | 100 | - | 2~4 | 10 | Hot-melt Adhesives, PSA, Flooring Adhesives, Wax Modification, Rubber Compounding, etc. |
| Permalyn 6110 | 110 | - | < 1 | 13 | Hot-melt Adhesives, PSA, Flooring Adhesives, Dipilatory Wax Asphalt Modification, Contact Adhesives, Lamination, etc. |

**Deodorized Rosin esters**

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| --- | --- | --- | --- | --- | --- |
|  | Softening Point R&B, ℃ | Color USRG | Color,Gardner (50% in Toluene) | Acid No. | Applications |
| Ester Gum 8D | 93 | WW | - | 7 | Chewing gum, Coatings, Graphic arts, PSA |
| Ester Gum 8D-C | 88 | No | - | 8 | Chewing gum, Coatings, Graphic arts, PSA |
| Ester Gum 10D | 108 | WWo | - | 5 | Chewing gum, Hot-melt Adhesives, Coatings, Inks, PSA |

**Partially Hydrogenated Rosin & Rosin esters**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Softening Point R&B, ℃ | Color USRG | Color,Gardner (50% in Toluene) | Acid No. | Applications |
| Staybelite Resin-E | 79 | - | 5 | 5 | Hot-melt Adhesives, Pigment Coating, Solder Flux |
| Staybelite Ester 5-C | 80 | No | - | 8 | Hot-melt Adhesives, PSA, Flooring Adhesives, Wax Modification, Rubber Compounding, etc. |
| Staybelite Ester 5-E | 85 | X | - | 8 | Chewing Gum, Hot-melt Adhesives, PSA, Flooring Adhesives, Wax Modification, Rubber Compounding, etc. |
| Staybelite Ester 10-E | 86 | - | 6 | 8 | Hot-melt Adhesives, PSA, Flooring Adhesives, Dipilatory Wax Cosmetics, Contact Adhesives, Lamination, etc. |
| Pentalyn H-E | 108 | - | 8 | 14 | Hot-melt Adhesives, PSA, Flooring Adhesives, Contact Adhesives, Wax Modification, etc. |
| Foralyn 5020-F | Liquid | - | 3 | 6 | Cosmetics, Perfumery, Tackifier, Plasticizer, etc. |

**Highly Hydrogenated Rosin & Rosin esters**

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| --- | --- | --- | --- | --- | --- |
|  | Softening Point R&B, ℃ | Color USRG | Color,Gardner (50% in Toluene) | Acid No. | Applications |
| Foral AX-E | 81 | - | < 1 | 166 | Hot-melt Adhesives, Pigment Coating, Solder Flux |
| Foralyn-E 81 | - | 2 | 168 | Hot-melt | Adhesives, Pigment Coating, Solder Flux |
| Foral 85-E | 86 | - | 2 | 9 | Hot-melt Adhesives, PSA, Contact Adhesives |
| Foralyn 90 | 89 | - | 1 | 9 | Hot-melt Adhesives, PSA, Contact Adhesives |
| Foral 105-E | 106 | - | 5 | 14 | Hot-melt Adhesives, PSA, Contact Adhesives |
| Foralyn 110 | 109 | - | 2 | 14 | Hot-melt Adhesives, PSA, Contact Adhesives |

**Polymerized Rosin & Rosin esters**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Softening Point R&B, ℃ | Color USRG | Color,Gardner (50% in Toluene) | Acid No. | Applications |
| Poly-Pale | 99~106 | WGo | 8 | 140 | Adhesives, Coatings, Printing Inks, Solder Flux |
| Dymerex | 138~151 | Ko | 9 | 140 | Adhesives, Coatings, Printing Inks, Solder Flux |
| Poly-Pale Ester 10 | 109 | WGo | - | 8 | Hot-melt Adhesives, Coatings, Inks, PSA, Contact Adhesives |
| Pentalyn C | 126 | - | 11 | 10 | Hot-melt Adhesives, Coatings, Inks, PSA, Contact Adhesives |

**Others**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Softening Point R&B, ℃ | Color USRG | Color,Gardner (50% in Toluene) | Acid No. | Applications |
| Abitol-E | Liquid | - | Hunter | 2 | 0.1 Tackifier, Plasticizer |
| Cellolyn 21-E | 63 | - | 1 | 6 | Tackifier for deep-freeze acrylic tape & label |

Pure Monomer Resins

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Products | Resin Typical Properties | | | | | | | |
| Softening Point R&B, ℃ | Color YID | Molecular Weight Distribution | | | | Tg ℃ | Applications |
| Mn | Mw | Pd | Mz |
| Endex Resins | | | | | | | | |
| Endex 155 | 153 | 5 | 2,400 | 6,950 | 3.0 | 13,850 | 100 | Reinforcing resin for blocking copolymers |
| Endex 160 | 159 | 8 | 2,500 | 8.6 | 3.6 | 18,400 | 105 |
| Kristalex Resins | | | | | | | | |
| Kristalex F85 | 86 | < 1 | 750 | 1,200 | 1.6 | 1,950 | - | Hot-melt Adhesives, Coatings,  PSA, Contact Adhesives |
| Kristalex F100 | 99 | < 1 | 800 | 1,400 | 1.8 | 2,200 | - |
| Kristalex F115 | 117 | < 1 | 1,150 | 2,050 | 1.8 | 3,300 | - |
| Kristalex 1120 | 119 | 7 | 800 | 2,800 | 3.5 | 7,600 | 56 |
| Kristalex 3070 | 70 | 7 | 650 | 950 | 1.5 | 1,450 | 27 |
| Kristalex 3085 | 85 | 4 | 650 | 1,150 | 1.8 | 1,900 | 36 |
| Kristalex 3100 | 100 | 5 | 700 | 1,500 | 2.1 | 2,550 | 46 |
| Kristalex 3115 | 115 | 10 | 1,150 | 2,500 | 2.2 | 4,100 | 64 |
| Kristalex 5140 | 139 | 4 | 1,500 | 4,900 | 3.3 | 12,100 | 88 | Plastic Modification, Coatings, Sealants |
| Piccolastic Resins | | | | | | | | |
| Piccolastic A5 | 5 | 2 | 300 | 350 | 1.2 | 1,300 | - | Adhesive, Coatings, Plastic Modification |
| Piccolastic A75 | 74 | 1 | 700 | 1,300 | 1.9 | 37,400 | 28 |
| Piccolastic D125 | 126 | 2 | 1,300 | 37,400 | 28.5 | 179,000 | 60 | Adhesives, Plastic Modification |
| Piccotex Resins | | | | | | | | |
| Piccotex 75 | 75 | 6 | 750 | 1,100 | 1.7 | 1,700 | 29 | Hot-melt Adhesives, Coatings, PSA, Contact Adhesives |
| Piccotex LC | 91 | 8 | 750 | 1,350 | 1.8 | 2,200 | 43 |
| Piccotex 100 | 98 | 6 | 1,000 | 2,200 | 2.2 | 3,600 | 42 |
| Piccotex 120 | 118 | 5 | 1,450 | 3,500 | 2.4 | 6,400 | 68 |
| Plastolyn Resins | | | | | | | | |
| Plastolyn R1140 | 140 | <1 | 1,200 | 2,000 | 1.7 | 3,000 | - | Plastic, Film Modification |
| Plastolyn 240 | 121 | 11 | 1,150 | 3,800 | 4.0 | 8,500 | 74 | Plastic Modification, Contact Adhesives, Reinforcing Resin |
| Plastolyn 290 | 140 | 13 | 1,350 | 5,200 | 3.3 | 14,000 | 91 |
| Regalrez Resins | | | | | | | | |
| Regalrez 1018 | 19 | 6 | 300 | 350 | 1.2 | 500 | - | Tackifier, Plasticizer |
| Regalrez 1094 | 95 | 2 | 550 | 850 | 1.6 | 1,350 | - | High Stability Tackifiers Adhesives, Sealants, Plastic Modification |
| Regalrez 1126 | 124 | 2 | 700 | 1,250 | 1.8 | 2,050 | - |
| Regalrez 1139 | 141 | 2 | 1,350 | 3,100 | 2.3 | 5,200 | - |
| Regalrez 3102 | 102 | 3 | 800 | 1,450 | 1.8 | 2,350 | - |
| Regalrez 6108 | 108 | 3 | 750 | 1,400 | 1.8 | 2,300 | - |