

# **Bondyram**<sup>®</sup> By Polyram

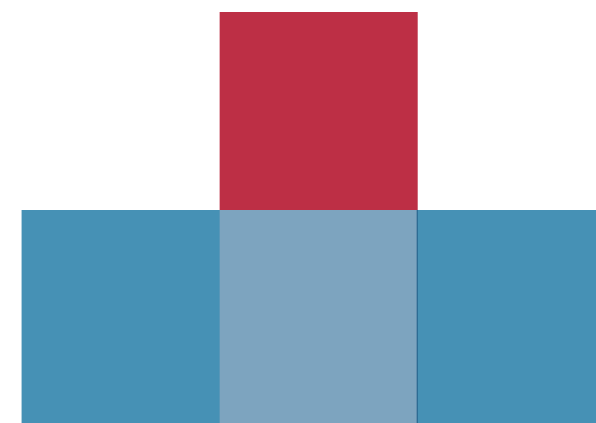
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COUPLING AGENTS & IMPACT MODIFIERS

 **Polyram**  
Group

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### PP | Coupling Agents

| Bondyram® Grade | Melting Point C° | MFI 190°/2.16 kg | Maleic Anhydride content in % | Applications            |
|-----------------|------------------|------------------|-------------------------------|-------------------------|
| 1001            | 160              | 100              | 1.0                           | PP/Glass                |
| 1010            | 160              | 200              | 1.0                           | PP/Long Glass           |
| 1101            | 160              | 150              | 1.0                           | Wood & Natural Fillers  |
| 1001CN          | 157              | 100              | 1.0                           | PP/Glass Heat stability |
| 1001LE          | 157              | 100              | 0.8                           | PP/Glass Low Emission   |
| 1001MP          | 160              | 100              | 1.0                           | PP/Glass Micro Pellets  |
| 1201            | 145              | 150              | 1.0                           | PP/Glass Low Emission   |
| 2102            | 160              | >400             | >1.3                          | PP/Glass & WPC          |
| 2103            | 135              | >400             | >1.3                          | PP/Glass sizing         |

### PE | Coupling Agents

| Bondyram® Grade | Base Polymer      | MFI 190°/2.16 kg | Density g/cm³ | Maleic content % | Applications            |
|-----------------|-------------------|------------------|---------------|------------------|-------------------------|
| 5108            | Metallocene HDPE  | 3                | 0.96          | 1.0              | Wire & Cables compounds |
| 5102            | Metallocene HDPE  | 1                | 0.96          | >1.5             | WPC Compounds           |
| 5103            | Metallocene MDPE  | 1                | 0.94          | >1.5             | WPC & Recycle Compounds |
| 4108            | Metallocene LLDPE | 1.5              | 0.91          | 1.0              | Wire & Cables           |
| 4108K           | LLDPE             | 1                | 0.92          | 1.0              | Wire & Cables           |
| TL4114          | Metallocene LLDPE | 3.5              | 0.918         | 1.0              | WPC & Recycle Compounds |

### Impact Modifiers for Nylon compounds

| Bondyram® Grade | Base Polymer    | Melting Point C° | Density g/cm³ | Applications                                 |
|-----------------|-----------------|------------------|---------------|--|
| 7003            | EPDM            | 55               | 0.88          | Ultra High viscosity for high melt strengths |
| 7103            | Ethyl α Olefin  | 55               | 0.87          | High viscosity                               |
| 7107            | Ethyl α Olefin  | 55               | 0.87          | High Flow                                    |
| 7108            | Ethyl α Olefin  | 50               | 0.86          | High flow - low temp impact resistance       |
| 7109            | Ethyl α Olefin  | 115              | 0.9           | Medium performance economy grade             |
| 7105            | Ethylene Octane | 60               | 0.87          | Octane base                                  |

### Compatibilizers for recycle compounds

#### Post industrial and Post consumers

| Bondyram® Grade      | Base Polymers & applications     | Performance   |
|----------------------|----------------------------------|---|
| 6000                 | ABS, PC/ABS                      | improves compatibility and mechanical properties                    |
| 1001                 | PP/Nylon post consuming carpets  | improves compatibility and mechanical properties                    |
| 5103 / 5102 / TL4114 | Wood plastics composites PE base | Improves mechanical properties, reduces water up-tacking            |
| 2103 / 2102 / 1101   | Wood plastics composites PP base | Improves mechanical properties, reduces water up-tacking            |
| ECO-TL 100           | Post consuming PE/PP/PA/EVOH mix | Improves compatibility and mechanical properties - Reduce deviation |

