

Product Description

Integrate products are chemically modified polyolefins used to combine dissimilar materials for a variety of applications including molded articles, flexible materials and fiber technology or to provide property enhancements which fulfill final material parameters. These products are particularly effective when the materials involved contain both polar and non-polar components. Specific ingredients may include polymers such as polyethylene and/or its copolymers, polypropylene and/or its copolymers, polyamides (nylon), polyacetates, cellulose, wood flour as well as a variety of minerals, which can be used to improve strength or stiffness of the final composition. *Integrate* products are available in pellet form.

Regulatory Status

For regulatory compliance information, see *Integrate* NE542013 [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; North America; South & Central America
Application	Wire & Cable; Wood Composites
Market	Compounding; Coupling Agents; Industrial, Building & Construction; Wire & Cable
Processing Method	Sheet and Profile Extrusion; Wire & Cable

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	13	g/10 min	ASTM D1238
Density, (23 °C)	0.943	g/cm ³	ASTM D1505
Mechanical			
Flexural Modulus, (1% Secant)	552	MPa	ASTM D790
Tensile Strength at Break	15.3	MPa	ASTM D638
Tensile Elongation at Break	650	%	ASTM D638
Thermal			
Vicat Softening Point	106	°C	ASTM D1525

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

A process melt temperature above 400 °F (205 °C) is recommended to ensure that adequate dispersion occurs among the components.

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

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