Info Sheet
Flexible Films

SPsK919 Resin
Exceptional Abuse Resistance for the Most Demanding Applications

Better protection with flexible packaging.

In a new economy built around e-commerce and sustainability, packaging requirements are rapidly changing. This presents new challenges for large-format food and liquid packaging, and heavy-duty sacks like pet food—particularly when combined with the increased number of touchpoints in the supply chain and the shift from rigid to flexible packaging. Meet those challenges with the abuse resistance and toughness of SPsK919. It’s one of a new class of resins, developed with our proprietary Advanced SCLAIRTECH™ Technology, that gives you an unbeatable combination of physical properties, sealability, processability and clarity. Answer the demands of the new economy with SPsK919.

Performance
Balanced physical properties enhance structure design versatility

- Exceptional creep performance helps preserve package form, reducing failures
- Greater abuse resistance and improved balance of stiffness/tear/dart than single site LLDPE
- Low seal initiation temperature and broad hot-tack window enable robust operation of packaging lines

Processability
Excellent productivity on blown film lines and downstream converting equipment

- Ideal for both mono and multilayer structures
- Increased output due to optimized resin architecture
- Enables LDPE blend reduction due to enhanced bubble stability and melt strength.

E-commerce
Optimal product protection for greater consumer confidence

- Toughness and package strength help preserve package integrity in a demanding supply chain.
- Flex crack resistance helps withstand the rigors of rough transport
- Protects products in mixed shipments as well as those designed for “ships in own container” (SIOC) standards

Sustainability
Performance properties to help enable the circular economy

- Downgage to reduce overall material usage while maintaining package rigidity
- Excellent property retention improves film recyclability
- Can replace multi-wall sacks and other non-recyclable packaging formats

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Info Sheet
SPsK919 Resin

Applications

SPsK919 is ideal for a wide range of packaging applications that require exceptional stiffness/toughness balance and creep resistance, including:

- Pet food
- Lawn & garden
- Frozen food
- Sidewalk & pool salts
- Bone-in poultry
- Liquid packaging
- Replacement for multi-wall sacks.

Durability | Skin layers
Application: Frozen foods
Toughness and tear performance protect food throughout the supply chain.

Material Savings | Interior layers
Application: Poultry
Reduce overall material usage while maintaining package rigidity.

Available with or without antiblock additive packages.

DURABILITY

Application: Frozen foods
Toughness and tear performance protect food throughout the supply chain.

PHYSICAL PROPERTIES
Performance based on a 1 Mil thick film
Comparison grades are NOVA Chemicals’ offerings

- SPsK919
- PF-Y818
- SPsK919

Dart (G/Mil)

<table>
<thead>
<tr>
<th>SPsK919</th>
<th>FPx016</th>
<th>FP120</th>
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<tbody>
<tr>
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<td>400</td>
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<tr>
<td>600</td>
<td>800</td>
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MD Tear (G/Mil)

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<tr>
<td>250</td>
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Stiffness (MPa)

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Haze (%)

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Gloss (at 45°)

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DROP TEST PERFORMANCE

We subjected 25 kg resin bags made from a downgauged 5 mil co-extruded structure of SPsK919/FP026/SPsK919 to a series of 5-foot drop tests:

- STANDING
- FLAT
- SIDE

100% of bags maintained package integrity. Heavy duty sacks produced with SPsK919 will withstand the challenges and abuse of the modern supply chain.