



HYPERIER® IP1105

LG Chem Ltd. - Thermoplastic

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General Information

Product Description

HYPERIER® is the nanocomposite alloy made of a nanometer scale inorganic layered silicates (clay) and various polymers.

The nanocomposite alloy enables the formation of continuous and lamellar shape of barrier membrane.

It is usually blended with polyolefin (HDPE, LDPE or PP) for blow molding.

Benefits and Applications:

- Various applications from agricultural packaging to fuel tanks and containers
- Cost-effectiveness
 - Utilizes current mono-layer equipments and molds
- Excellent Emission Barrier to most of fuel types and agrochemicals
- Good mechanical property especially at the low temperature
- Good insert coverage
- SGS, FDA compliance

IP-1105:

- Applicable bottle size: 5 to 20 L
- Application: Agrochemical Container, SORE® Fuel Tank, PFC

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Barrier Resin	• Good Stiffness	
	• Good Impact Resistance	• Low Temperature Resistant	
Uses	• Blending	• Fuel Tanks	• Packaging
	• Containers	• Membranes	
Agency Ratings	• FDA Unspecified Rating		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.01		Internal Method
Thermal	Nominal Value	Unit	
Melting Temperature	415	°F	

Notes

¹ Typical properties: these are not to be construed as specifications.