

## Octene sMDPE Food Packaging Container Resin

### IFs542-R

**Melt Index** 60

**Density** 0.942

#### Features

- Improved processability for applications requiring intermediate stiffness
- Excellent cold temperature drop impact properties
- Superior organoleptic properties

#### Additives

- Antioxidant
- Mold release

#### Applications

- Frozen food / ice cream containers
- Housewares
- Deep skirt lids

Properties	ASTM <sup>(1)</sup>	Units	Typical Values <sup>(2)</sup> Compression Molded
<b>Melt Index<sup>(3)</sup></b>	D 1238	g/10 min	60
<b>Density</b>	D 792	g/cm <sup>3</sup>	0.942
<b>Tensile Strength @ Yield</b> 50 mm/min	D 638	MPa (psi)	21.9 (3 176)
<b>Tensile Strength @ Break</b> 50 mm/min	D 638	MPa (psi)	13.4 (1 944)
<b>Elongation @ Yield</b> 50 mm/min	D 638	%	10
<b>Elongation @ Break</b> 50 mm/min	D 638	%	90
<b>Tensile Secant Modulus @ 1%</b>	D 638	MPa (psi)	953 (132 221)
<b>Flexural Secant Modulus @ 1%</b>	D 790	MPa (psi)	934 (135 465)
<b>Hardness, Shore D</b>	D 2240	--	66
<b>Vicat Softening Point</b>	D 1525	°C (°F)	114 (237)

(1) Properties designated have been determined using methods which are in accordance with or substantially in accordance with the specified testing standards.

(2) Typical Values represent average laboratory values and are intended as guides only, not as specifications. Compression molding of samples done per ASTM conditions. Testing of injection molded samples done on the sidewall of injection molded containers in the machine direction. Physical properties of injection molded parts are dependent on molding conditions.

(3) Condition 190/2.16.

IFs542-R-sMDPE

SURPASS®

**Availability**

**SURPASS polyethylene resins** are available in bulk hopper cars, hopper trucks, boxes, sea bulk containers or bags. The product type and batch number are clearly marked on each container. Contact the NOVA Chemicals sales office nearest you for availability in your area.

**Storage/Handling**

IFs542-R should be stored in a clean, dry place at ambient temperatures. Prolonged or improper storage can result in deterioration of product properties. Care should be taken when handling and transferring product to prevent foreign matter contamination. **The NOVA Chemicals Material Safety Data Sheet (MSDS)** contains important safety information and should be reviewed before using the product.

**Processing Conditions**

Comprehensive assistance with processing conditions and technology is available from NOVA Chemicals Technical Service at (403) 291-8444.

**Food Packaging Status**

**United States:** IFs542-R complies with the specifications contained in the U.S. Food and Drug Administration (FDA) regulation 21 CFR 177.1520 for olefin polymers, para. (c) 3.2a, and may thus be used in the United States as an article or component of an article intended for use in contact with food.

**Other Countries:** For regulatory compliance information for other countries, please contact your nearest NOVA Chemicals office.

**Environmental**

NOVA Chemicals' polyethylene resins are biologically and chemically inert, but improper disposal may present an ingestion hazard to wildlife. Where recycling of NOVA Chemicals' polyethylene resins is not possible, disposal to landfill or incineration in accordance with all applicable government laws and regulations is recommended. Please contact NOVA Chemicals Technical Service for further information on recycling and disposal of NOVA Chemicals resins.



**HDPE** is the SPI resin code developed for medium density polyethylene to identify material type for sorting and recycling purposes.

[www.novachemicals.com](http://www.novachemicals.com)

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