

SURPASS® IGs153-A

High Density Polyethylene Copolymer
NOVA Chemicals

Message:

SURPASS® IGs153-A is a High Density Polyethylene Copolymer material. It is available in North America for compression molding or injection molding. Important attributes of SURPASS® IGs153-A are:

- Antioxidant
- Eco-Friendly/Green
- Fast Molding Cycle
- Food Contact Acceptable
- Good Aesthetics

Typical applications include:

- Caps/Lids/Closures
- Food Contact Applications

General Information	
Additive	Antioxidant
Features	Antioxidant
	Fast Molding Cycle
	Food Contact Acceptable
	Good Organoleptic Properties
	Octene Comonomer
	Recyclable Material
Uses	Caps
	Closures
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a
Processing Method	Compression Molding
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.953	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 10% Igepal)	10.0	hr	ASTM D1693A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant	1320	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	26.8	MPa	
Break	25.3	MPa	

Tensile Elongation			ASTM D638
Yield	9.6	%	
Break	910	%	
Flexural Modulus - 1% Secant	1200	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	70	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	70.0	°C	ASTM D648
Vicat Softening Temperature	127	°C	ASTM D1525

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Recommended distributors for this material

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