

# SURPASS® RMs245-U(UG)

High Density Polyethylene

NOVA Chemicals

## Message:

SURPASS®RMs245-U(UG) is a high density polyethylene material. This product is available in North America and is processed by rotational molding.

SURPASS®The main features of RMs245-U(UG) are:

- flame retardant/rated flame
- High stiffness
- High resistance to environmental stress fracture (ESCR)
- Antioxidants
- beautiful

Typical application areas include:

- food contact applications
- Water pipes/pipes/drinking water
- Jars
- Agriculture

General Information	
UL YellowCard	E146584-102320173
Additive	Antioxidation
	UV stabilizer
Features	UV Stabilized
	Rigidity, high
	High ESCR (Stress Cracking Resistance)
	Resistance to gas fading
	Antioxidation
	Low temperature impact resistance
	Good appearance
	Octene comonomer
Uses	Agricultural application
	Water tank
Agency Ratings	FDA 21 CFR 176.170(c), Table 1
	FDA 21 CFR 176.170(c), Table 2, Cond. B
	FDA 21 CFR 176.170(c), Table 2, Cond. C
	FDA 21 CFR 176.170(c), Table 2, Cond. D
	FDA 21 CFR 176.170(c), Table 2, Cond. E
	FDA 21 CFR 176.170(c), Table 2, Cond. F
	FDA 21 CFR 176.170(c), Table 2, Cond. G
	FDA 21 CFR 176.170(c), Table 2, Cond. H
	FDA 21 CFR 177.1520(c) 3.2a
	NSF 14

Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.945	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.7	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
50°C, 100% Igepal, compression molding, F50	> 1000	hr	ASTM D1693A
50°C, 100% Igepal, compression molding, F50	> 1000	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, 1.90 mm, Compression Molded)	23.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, 1.90 mm, Compression Molded)	11	%	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	1030	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Low temperature impact-Rotational Molded			ARM
-40°C, 3.17 mm	75.0	J	ARM
-40°C, 6.35 mm	> 245	J	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	63.0	°C	ASTM D648
1.8 MPa, not annealed	43.0	°C	ASTM D648
Melting Temperature	127	°C	DSC
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
NOTE			
1.	Type 4, 51mm/min		
2.	Type 4, 51mm/min		

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#### Recommended distributors for this material

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