

SURPASS® RMs341-U(UG)

High Density Polyethylene

NOVA Chemicals

Message:

SURPASS® RMs341-U(UG) is a High Density Polyethylene material. It is available in North America for rotational molding.

Important attributes of SURPASS® RMs341-U(UG) are:

- Flame Rated
- Antioxidant
- Fast Molding Cycle
- Good Mold Release
- Good Processability
- Typical applications include:
 - Plumbing/Piping/Potable Water
 - Food Contact Applications
 - Tanks
 - Containers
 - Sporting Goods

General Information	
UL YellowCard	E146584-100089033
Additive	Antioxidant
	UV Stabilizer
Features	Antioxidant
	Fast Molding Cycle
	Good Mold Release
	Good Processability
	High Density
	Low Temperature Impact Resistance
	Low Viscosity
	Octene Comonomer
Uses	Containers
	Septic Tanks
	Sporting Goods
	Tanks
Agency Ratings	FDA 21 CFR 176.170(c), Table 2 3
	FDA 21 CFR 177.1520(c) 3.2a 4
	NSF 24
	NSF 51
	NSF 61
Processing Method	Rotational Molding

Physical	Nominal Value	Unit	Test Method
Density	0.941	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
50°C, 100% Igepal, Compression Molded, F50	> 1000	hr	ASTM D1693A
50°C, 100% Igepal, Compression Molded, F50	> 1000	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 1.90 mm, Compression Molded)	20.2	MPa	ASTM D638
Tensile Elongation ² (Yield, 1.90 mm, Compression Molded)	12	%	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	827	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
ARM Impact - Rotational Molded			ARM
-40°C, 3.17 mm	95.0	J	
-40°C, 6.35 mm	230	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, Compression Molded	62.0	°C	
1.8 MPa, Unannealed, Compression Molded	43.0	°C	
Melting Temperature	126	°C	DSC
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
NOTE			
1.	Type IV, 51 mm/min		
2.	Type IV, 51 mm/min		

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