

Braskem PE MR-435UV

Linear Low Density Polyethylene

Braskem

Message:

The resin MR 435UV is a Linear Low Density Polyethylene, 1-butene based, with good balance of processability, stiffness and environmental stress cracking resistance.

Applications:

This resin is indicated to produce rotomolded water tanks, parts for the automotive and agricultural segments.

General Information			
Additive	UV Stabilizer		
Features	Butene Comonomer		
	Good Processability		
	Good Stiffness		
	High ESCR (Stress Crack Resist.)		
	Low Density		
Uses	Agricultural Applications		
	Automotive Applications		
	Tanks		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.934	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 2.00 mm, 10% Igepal, Compression Molded, F50	200	hr	
100% Igepal, F50	> 1000	hr	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Compression Molded	21.0	MPa	
Break, Compression Molded	28.0	MPa	
Tensile Elongation			ASTM D638
Yield, Compression Molded	15	%	
Break, Compression Molded	> 1000	%	
Flexural Modulus - 1% Secant (Compression Molded)	720	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

ARM Impact			
-40°C, 3.17 mm	35.0	J	
-40°C, 6.34 mm	75.0	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	60.0	°C	
1.8 MPa, Unannealed	41.0	°C	
Peak Melting Temperature	129	°C	ASTM D3418
Injection	Nominal Value	Unit	
Processing (Melt) Temp	220 to 350	°C	

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