

CERTENE™ HR-242U

High Density Polyethylene
Muehlstein

Message:

HR-242U is a certified prime grade copolymer resin using hexane as comonomer, with Ultraviolet (UV) additiv; designed for rotational molding, special large tank applications. HR-242U is UV stabilized and is available in 35 mesh powder.

General Information			
Additive	UV stabilizer		
Features	Copolymer		
Uses	Water tank		
Forms	Powder		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	0.942	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	780	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	24.0	MPa	ASTM D638
Tensile Elongation ² (Yield)	11	%	ASTM D638
Flexural Modulus - 1% Secant ³	1030	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (-40°C, 45.7 mm)	50	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	67.0	°C	ASTM D648
Additional Information			
Test made on injection molded Type 1 tension test specimen according to ASTM D 2146.			
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	1.3 mm/min		

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