

Technical Data Sheet

Petrothene GA672962



High Density Polyethylene

Product Description

Petrothene GA672962 is a hexene HDPE resin selected by customers for rotationally molding large tank applications. GA672962 is UV-stabilized and is available in a 35 mesh powder as *Microthene* MP672962.

Application	Tanks, Industrial
Market	Rigid Packaging
Processing Method	Rotomolding

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	1.7	g/10 min	1.7	g/10 min	ASTM D1238
Density, (23 °C)	0.944	g/cm ³	0.944	g/cm ³	ASTM D1505
Mechanical					
Flexural Modulus					
(1% Secant)	142000	psi	980	MPa	ASTM D790
(2% Secant)	120000	psi	825	MPa	ASTM D790
Tensile Strength at Yield	3300	psi	22.8	MPa	ASTM D638
Environmental Stress Crack Resistance, F ₅₀ (100% Igepal®, Cond B)	600	hr	600	hr	ASTM D1693
Impact					
Low Temperature Impact					
1/8" specimen @ -40 °F	35	ft-lbs	45	J	ARM
1/4" specimen @ -40 °F	155	ft-lbs	210	J	ARM
Thermal					
Deflection Temperature Under Load					
(66 psi, Unannealed)	149	°F	65	°C	ASTM D648
(264 psi, Unannealed)	109	°F	43	°C	ASTM D648

Notes

Tensile properties were run with a crosshead speed of 2 inches/min or 50 mm/min.

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