

Technical Data Sheet

Petrothene GA568200



Linear Low Density Polyethylene

Product Description

Petrothene GA568200 exhibits an excellent balance of processability, stiffness, impact strength and ESCR. Typical applications include housewares, trash cans, medical items and closures.

Application	Housewares; Industrial Packaging; Outdoor and Power Tools; Sports, Leisure & Toys; Trash Cans
Market	Compounding; Rigid Packaging
Processing Method	Injection Molding

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	33	g/10 min	33	g/10 min	ASTM D1238
Density, (23 °C)	0.925	g/cm ³	0.925	g/cm ³	ASTM D1505
Spiral Flow	15.8	in	40.1	cm	LYB Method
Mechanical					
Flexural Modulus					
(1% Secant)	66000	psi	460	MPa	ASTM D790
(2% Secant)	57000	psi	390	MPa	ASTM D790
Tensile Strength at Break, (23 °C)	1200	psi	8	MPa	ASTM D638
Tensile Strength at Yield, (23 °C)	2100	psi	14	MPa	ASTM D638
Tensile Elongation at Yield, (23 °C)	12	%	12	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	58		58		ASTM D2240
Thermal					
Vicat Softening Temperature	188	°F	87	°C	ASTM D1525
Low Temperature Brittleness, F ₅₀	<-105	°F	<-76	°C	ASTM D746
Deflection Temperature Under Load, (66 psi, Unannealed)	115	°F	46	°C	ASTM D648