Technical Data Sheet

Petrothene GA584189

Linear Low Density Polyethylene

Product Description

Petrothene GA584189 exhibits exceptional flow for high speed molding of lids, while providing good ESCR and tear resistance.

Application	Lids
Market	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)	105	g/10 min	105	g/10 min	ASTM D1238
Density, (23 °C)	0.929	g/cm³	0.929	g/cm³	ASTM D1505
Spiral Flow	24.3	in	61.8	cm	LYB Method
Mechanical					
Flexural Modulus					
(1% Secant)	80000	psi	550	MPa	ASTM D790
(2% Secant)	69000	psi	480	MPa	ASTM D790
Tensile Strength at Break, (23 °C)	1700	psi	12	MPa	ASTM D638
Tensile Strength at Yield, (23 °C)	2200	psi	15	MPa	ASTM D638
Tensile Elongation at Yield, (23 °C)	11	%	11	%	ASTM D638
Hardness					
Shore Hardness, (Shore D)	60		60		ASTM D2240
Thermal					
Vicat Softening Temperature	182	°F	83	°C	ASTM D1525
Low Temperature Brittleness, F_{50}	-73	°F	-59	°C	ASTM D746
Deflection Temperature Under Load, (66 psi, Unannealed)	124	°F	51	°C	ASTM D648