

Polyaxis CP 813-31G BLACK

LyondellBasell Industries - Linear Low Density Polyethylene

General Information

Product Description

Polyaxis CP 813-31 is a black general purpose linear low density polyethylene compound offering quick cycles and part to part consistency. Available as pellet or powder.

General

Additive	• Long Term UV-8 Stabilizer
Features	• Fast Molding Cycle • UV Stabilized
Uses	• General Purpose • Outdoor Applications
Appearance	• Black
Forms	• Pellets • Powder
Processing Method	• Rotational Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.932 to 0.939	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5 to 6.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
10% Igepal, F50	> 25.0	hr	
100% Igepal, Compression Molded, F50	> 500	hr	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Rotational Molded)	2310	psi	ASTM D638
Tensile Elongation ² (Break, Rotational Molded)	400	%	ASTM D638
Flexural Modulus - 1% Secant (Rotational Molded)	84000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Impact Strength			ARM
-40°F, 0.125 in, Rotational Molded	45	ft-lb	
-40°F, 0.250 in, Rotational Molded	175	ft-lb	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Rotational Molded	124	°F	
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, Rotational Molded	104	°F	

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min