

Technical Data Sheet

Lupolen 5261Z Q456

High Density Polyethylene



Product Description

Lupolen 5261Z Q456 is a high density polyethylene (HDPE) powder with high melt viscosity for ram extrusion of peroxide crosslinked pipes (PE-Xa). It is also used for compression molded plates.

Regulatory Status

For regulatory compliance information, see *Lupolen 5261Z Q456* [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

This grade is not intended for medical and pharmaceutical applications.

This grade is supported for use in drinking water applications.

Status	Commercial: Active
Availability	Africa-Middle East; Europe
Application	Drinking Water Pipe; Plumbing, Heating & Cooling
Market	Pipe
Processing Method	Compression Molding; Pipe; Sheet

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/21.6 kg) MFR measured on powder	2.0	g/10 min	ISO 1133-1
Density	0.954	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus, (23 °C)	1100	MPa	ISO 527-1, -2
Tensile Stress at Yield, (23 °C, 50 mm/min)	27	MPa	ISO 527-1, -2
Tensile Strain at Yield, (23 °C, 50 mm/min)	9	%	ISO 527-1, -2
Hardness			
Shore Hardness, (Shore D, 3 sec)	65		ISO 868
Ball Indentation Hardness, (H 132/30)	52	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature (A50)	132	°C	ISO 306
(B50)	80	°C	ISO 306
Peak Melting Point	134	°C	ISO 11357-3

Notes

These are typical property values not to be construed as specification limits.

