

Technical Data Sheet

Lupolen 5461B Q471 B

High Density Polyethylene



Product Description

Lupolen 5461 B Q 471 B is a high density polyethylene (HDPE) powder with high melt viscosity for extrusion of peroxide crosslinked pipes (PE-Xa).

Typical application: Crosslinked pipes, PE-Xa (peroxide).

This grade is not intended for medical and pharmaceutical applications.

This grade is supported for use in drinking water applications.

Application	Drinking Water Pipe; Plumbing, Heating & Cooling
Market	Pipe
Processing Method	Pipe
Attribute	High Density

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(190 °C/5.0 kg)	0.7	g/10 min	ISO 1133-1
(190 °C/21.6 kg)	15.0	g/10 min	ISO 1133-1
MFR measured on powder			
Density	0.953	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)	28	MPa	ISO 527-1, -2
Tensile Strain at Yield, (23 °C, 50 mm/min)	8	%	ISO 527-1, -2
Hardness			
Shore Hardness, (Shore D, 3 sec)	64		ISO 868
Ball Indentation Hardness, (H 132/30)	49	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(A50)	130	°C	ISO 306
(B50)	79	°C	ISO 306

Notes

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

