

Lupolen 5261 Z Q 456

High Density Polyethylene

LyondellBasell Industries

Message:

Lupolen 5261 Z Q 456 is a high density polyethylene (HDPE) powder with high melt viscosity for ram extrusion of peroxide crosslinked pipes (PE-Xa). It is not intended for medical and pharmaceutical applications.

General Information	
Features	Crosslinkable
	High Viscosity
Uses	Piping
	Plumbing Parts
Forms	Powder
Processing Method	Pipe Extrusion
	Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	2.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	65		ISO 868
Ball Indentation Hardness (H 132/30)	52.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	1100	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	27.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	9.0	%	ISO 527-2/50
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	132	°C	ISO 306/A50
--	80.0	°C	ISO 306/B50
Melting Temperature (DSC)	134	°C	ISO 3146
Extrusion	Nominal Value	Unit	
Melt Temperature	< 280	°C	

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