

Lupolen 4261AG Q474

High Density Polyethylene

LyondellBasell Industries

Message:

Lupolen 4261 AG Q 474 is a high density polyethylene with outstanding ESCR, high impact resistance and good chemical resistance. It is delivered in pellet form and contains antioxidants. Typical customer applications include injection molded IBC outlet valves and accessories.

Lupolen 4261 AG Q 474 is not intended for use in medical and pharmaceutical applications.

General Information			
Additive	Antioxidation		
Features	High ESCR (Stress Cracking Resistance)		
	Antioxidation		
	Impact resistance, high		
	Good chemical resistance		
Uses	Valve/valve components		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.945	g/cm ³	ISO 1183
Apparent Density	> 0.50	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.5	g/10 min	ISO 1133
FNCT ¹ (80°C)	2.5	day	ISO 16700
Staudinger Index	370	cm ³ /g	ISO 1628
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 132/30)	40.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	850	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	24.0	MPa	ISO 527-2
Tensile Strain (Yield)	10	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (-30°C)	170	kJ/m ²	ISO 8256/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	70.0	°C	ISO 75-2/B
1.8 MPa, not annealed	42.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	125	°C	ISO 306/A50
--	75.0	°C	ISO 306/B50
Melting Temperature (DSC)	130	°C	ISO 3146

Injection	Nominal Value	Unit
Processing (Melt) Temp	200 - 230	°C
NOTE		
1.	3.5 MPa, 2% Arkopal N100	

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