

Lupolen 4261 AG Q 474

Polyethylene, High Density

Product Description

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.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Processing Methods	Injection Molding
Features	Antioxidant, Good Chemical Resistance, High ESCR (Environmental Stress Cracking Resistance), High Impact Resistance

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.945	g/cm ³
Melt flow rate (MFR) (190°C/21.6kg)	ISO 1133	6.5	g/10 min
Bulk density	ISO 60	>0.500	g/cm ³
Mechanical			
Tensile Modulus (23 °C)	ISO 527-1, -2	850	MPa
Tensile Stress at Yield (23 °C)	ISO 527-1, -2	24.0	MPa
Tensile Strain at Yield	ISO 527-1, -2	10	%
Tensile Impact Strength (Type 1, Method A, -30 °C) Note: notched	ISO 8256	170	kJ/m ²
Hardness			
Ball indentation hardness (H 132/30)	ISO 2039-1	40.0	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	70.0	°C
Heat deflection temperature A (1.80 MPa) Unannealed	ISO 75A-1, -2	42.0	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	125	°C
(B50 (50°C/h 50N))		75.0	°C
Melting Temperature	ISO 3146	130	°C

Additional Properties

ESCR (FNCT 3.5 MPa / 80°C, 2% Arkopal N100)(ISO 16770): 60 h
Staudinger Index Jg, ISO 1628: 370 ml/g

Processing Temperature Range: ca. 200 - 230 °C (injection molding)

