Alkatuff® 710UV

Linear Low Density Polyethylene

Qenos Pty Ltd

Message:

710UV is a linear low density polyethylene specifically designed for rotational moulding and high speed extrusion processes. It has good ESCR, high chemical resistance and toughness. It contains a high level of UV stabiliser to give protection for outdoor use.
710UV is a high flow rotational moulding grade that is best suited to intricate items and low cycle times.
710UV is suitable for food contact applications and conforms to the requirements of the Food and Drug Administration Regulations of USA, (CFR21) Part 177.1520, paragraph (c), sub section 3.1 under conditions described in Part 178.2010 (for volumes greater than 18.9 litres and at temperatures below 65°C).

General Information			
Additive	UV stabilizer		
Features	Rigid, good High ESCR (Stress Cracking Resistance) Good chemical resistance Good toughness		
Uses	Outdoor application		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1		
Forms	Particle		
Processing Method	rotomolding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.930	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Antarox CO-630, F50)	700	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	52		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1]			ASTM D638
Yield	15.0	MPa	ASTM D638
Fracture	11.0	MPa	ASTM D638
Tensile Elongation [2] (Break)	470	%	ASTM D638
Flexural Modulus	408	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (-40°C)	180	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	68.0	°C	ASTM D648
1.8 MPa, not annealed	34.0	°C	ASTM D648

Vicat Softening Temperature	109	°C	ASTM D1525

Additional Information
Instrumented Puncture, Qenos Method, 23°C: 9.4J

NOTE	
1.	500 mm/min
2.	500 mm/min

Recommended distributors for this material

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