

Adflex Z 108 S

Advanced Polyolefin

Product Description

Adflex Z 108 S is a reactor TPO (thermoplastic polyolefin) manufactured using the LyondellBasell' s proprietary *Catalloy* process technology. *Adflex* Z 108 S features a very high softness, a very low flexural modulus and a high melt flow rate.

It is used for injection molding, impact modification, extrusion coating, soft compounding, film and fiber applications. It is also ideal for the modification of polypropylene homopolymer and random copolymer without altering the transparency. The grade is available in natural pellet form.

For regulatory compliance information see Adflex Z 108 S Product Stewardship Bulletin (PSB).

Product Characteristics				
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Status	Commercial:	Active		
Test Method used	ISO			
-		erica, Latin America Compounding, Extrusion Coating, Injection		
Typical Customer Applications				
Typical Properties		Method	Value	Unit
Physical				
Density (Method A)		ISO 1183	0.89	g/cm³
Melt flow rate (MFR) (230 °C/ 2.16 kg)		ISO 1133	27	g/10 min
Mechanical				
Tear Strength		ASTM D 624	62 N/mm	
Note: (Graves, Die C, 50mm/min) -	Load/Width @ I	Max Load		
Tensile Stress at Break		ISO 527-1, -2	6	MPa
Tensile Stress at Yield		ISO 527-1, -2	5	MPa
Tensile Strain at Break		ISO 527-1, -2	> 800	%
Tensile Strain at Yield		ISO 527-1, -2	20	%
Flexural modulus		ISO 178	80	MPa
Impact		150 170	00	in u
Notched izod impact strength		ISO 180		
(23 °C, Type 1, Notch A)		100 100	No Break	kJ/m²
(- 40°C, Type 1, Notch A)			2	kJ/m²
Ductile/Brittle transition temperature		ISO 6603-2	-55	°C
Multiaxial Impact Strength		ASTM D3763		-
(Energy@ Max Load			10	J
+23 °C, 2.2m/s, 3.2mm plq; Failure Mode: Ductile)			-	-
(Energy@ Max Load -40°C, 2.2m/s, 3.2mm plq; Failure Mode: Ductile)			18	J
Hardness				
Shore hardness		ISO 868		
(Shore A)			85	
(Shore D)			30	
Note: 15 seconds				
Thermal				
Heat deflection temperature B (0.45 MPa) Unannealed		ISO 75B-1, -2	37	°C
Vicat softening temperature (A50 (50°C/h 10N))		ISO 306	53	°C
Melting temperature		DSC	142	°C
Note: (ISO 11357-3)				
Optical				
Gloss (60°, 3.2mm Injection Molded Plaque)		ASTM D 2457	66	

Notes

Typical properties; not to be construed as specifications.

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(iii) Additionally, the product(s) may not be used in: (1) U.S. FDA Class III, Health Canada Class IV, and/or European Class III Medical Devices; (2) applications involving permanent implantation into the body; (3) life-sustaining medical applications; and (4) lead, asbestos or MTBE related applications.

products and applications; (5) electronic cigarettes and similar devices; and (6) pressure pipe or

fittings that are considered a part or component of a nuclear reactor.

All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

Users should review the applicable Material Safety Data Sheet before handling the product.

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