Adflex Q 108 F

Advanced Polyolefin

Product Description

Adflex Q 108 F is a reactor TPO (thermoplastic polyolefin) manufactured using LyondellBasell' s proprietary *Catalloy* process technology. It is suitable for the extrusion and calendering of soft film and sheet, for the impact modification of polypropylene and other compounding applications, as well as monolayer and multilayer air quenched blown films. It is also used by our customers for automotive color-matched interior trim applications.

The grade is available in natural pellet form and has no slip or antiblock, and only minimal stabilization in order to allow wider design latitude for the compounder. Additional suitable stabilization is recommended to protect the resin during melt processing and throughout its useful life.

For regulatory compliance information see *Adflex* Q 108 F Regulatory Affairs Product Stewardship Information/Certification Data Sheet (RAPIDS), which can be found on www.polymers.lyondellbasell.com.

Product Characteristics

Status	Commercial: Restricted
Test Method used	ISO
Availability	North America
Processing Methods	Extrusion Compounding, Extrusion Flat-die, Blown Film, Calandering, Extrusion Pipe Sheet and Semi Finished Products, Extrusion Thermoforming
Features	Good Colorability, High ESCR (Environmental Stress Cracking Resistance), Good Flexibility, Low Gloss, Low Hardness , Medium Heat Resistance , Good Impact Resistance , Good Puncture Resistance
Typical Customer Applications	Automotive Parts, Bags & Pouches, Building and Construction, Interior Applications, Panels & Profiles, Soft Profile & Sheets, Stationery Film, TPO Foils and Skins

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.88	g/cm³
Melt flow rate (MFR) (230 °C/2.16 kg)	ISO 1133	0.6	g/10 min
Mechanical			
Tensile Stress at Break	ISO 527-1, -2	11	MPa
Tensile Strain at Break	ISO 527-1, -2	> 500	%
Flexural modulus	ISO 178	80	MPa
Impact			
Notched izod impact strength	ISO 180		
(- 20°C, Type 1, Notch A)		No Break	
(- 40°C, Type 1, Notch A)		6P*	kJ/m²
(23 °C, Type 1, Notch A)		No Break	
Hardness			
Shore hardness (Shore D)	ISO 868	30	
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	40	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	60	°C
Melting temperature	DSC	142	°C
Note: ISO 11357-3			

Notes

Typical properties; not to be construed as specifications.