Technical Data Sheet

Adflex X 100 G

Catalloy

Product Description

Adflex X 100 G is a reactor TPO (thermoplastic polyolefin) manufactured using the LyondellBasell's proprietary *Catalloy* process technology.
It has been developed as an impact modifier for polypropylene to be used both in extrusion and in injection moulding applications. Thanks to its particular characteristics, it does not alter the transparency of the modified polypropylene (homopolymer or random copolymer). *Adflex* X 100 G exhibits a high softness and a low modulus, with a relatively high Melt Flow Index. It does not contain any slip nor anti-blocking agents. The grade is available in natural pellet form.

Regulatory Status

For regulatory compliance information, see *Adflex* X 100 G Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; North America; South & Central America
Application	Crates; Hot Melt Adhesives; Housewares; Impact Modification; Industrial Packaging; Peelable Film; Sports, Leisure & Toys
Market	Consumer Products; Flexible Packaging
Processing Method	Compounding; Injection Molding
Attribute	Good Flexibility; Good Processability; Low Temperature Impact Resistance; Medium Flow; Soft

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	8	g/10 min	ISO 1133-1
Density, (23 °C, Method A)	0.88	g/cm³	ISO 1183-1
Mechanical			
Flexural Modulus	80	MPa	ISO 178
Tensile Stress at Break	10	MPa	ISO 527-1, -2
Tensile Stress at Yield	6	MPa	ISO 527-1, -2
Tensile Strain at Break	>600	%	ISO 527-1, -2
Tensile Strain at Yield	>40	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C)	NB	kJ/m²	ISO 179
(-20 °C)	105	kJ/m²	ISO 179
(-40 °C)	4	kJ/m²	ISO 179
Hardness			
Shore Hardness, (Shore D)	30		ISO 868
Thermal			
Vicat Softening Temperature, (A50)	56	°C	ISO 306

Deflection Temperature Under Load, (0.45 MPa, Unannealed)	40	°C	ISO 75B-1, -2
Melting Temperature	142	°C	ISO 11357-3

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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