Technical Data Sheet

# *Adflex* 7636 XCP

Catalloy

## Product Description

*Adflex* 7636 XCP 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* 7636 XCP 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.

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|---|---|
| **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 | 0.88 | g/cm³ | ISO 1183-1 |
| **Mechanical** | | | |
| Flexural Modulus | 80 | MPa | ISO 178 |
| Tensile Stress at Break | 12 | MPa | ISO 527-1, -2 |
| Tensile Strain at Break | 600 | % | ISO 527-1, -2 |
| **Impact** | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C) | NB | kJ/m² | ISO 179 |
| (-20 °C) | NB | kJ/m² | ISO 179 |
| (-40 °C) | 4 | kJ/m² | ISO 179 |
| **Hardness** | | | |
| Shore Hardness, (Shore D, 15 sec) | 30 | | ISO 868 |
| **Thermal** | | | |
| Vicat Softening Temperature, (A/10 N) | 56 | °C | ISO 306 |

| | | | |
|---|---|---|---|
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 40 | °C | ISO 75B-1, -2 |

**Notes**

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