Adflex KS084P

Advanced Polyolefin

Product Description

Adflex KS084P is a reactor TPO (thermoplastic polyolefin) manufactured using LyondellBasell's proprietary *Catalloy* process technology. *Adflex* KS084P features a high melt flow and a low modulus. It is designed for many commercial and industrial extrusion applications.

For regulatory compliance information, see the *Adflex* KS084P Product Stewardship Bulletin (PSB).

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	North America, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Extrusion Compounding, Cast Film, Extrusion Coating, Injection Molding
Features	Good Chemical Resistance, High ESCR (Environmental Stress Cracking Resistance), Good Flexibility, High Flow , Good Heat Seal, Heat Sealable, Low Temperature Impact Resistance, Good Puncture Resistance , High Strength , Good Toughness
Typical Customer Applications	Cast Film, Impact modification, Roofing Underlayment

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	30	g/10 min
Mechanical			
Tensile Stress at Break	ISO 527-1, -2	7.5	MPa
Tensile Stress at Yield	ISO 527-1, -2	6	MPa
Tensile Strain at Break	ISO 527-1, -2	> 800	%
Flexural modulus	ISO 178	100	MPa
Impact			
Notched izod impact strength	ISO 180		
(- 40°C, Type 1, Notch A)		3	kJ/m²
(23 °C, Type 1, Notch A)		No Break	
Ductile/Brittle transition temperature	ISO 6603-2	-55	°C
Hardness			
Shore hardness (Shore A)	ISO 868	90	
Shore hardness D	ISO 868/ASTM D 2240	35	
Note: 15 seconds			
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	40	°C
Vicat softening temperature (A50 (50°C/h 10N) °C)	ISO 306	53	°C
Melting temperature	DSC	164	°C

Notes

Typical properties; not to be construed as specifications.