Adflex KS311P

Polyolefin

LyondellBasell Industries

Message:

Adflex KS311P is a reactor TPO (thermoplastic polyolefin) manufactured using LyondellBasell's proprietary Catalloy process technology. It is suitable for extrusion as well as injection molding and blow molding applications, including mechanical and decorative automotive parts requiring elastomeric type properties, like molded-in color automotive exterior components. The product is in fact used by our customers for applications with paintable and weatherable requirements, such as injection molded fascias, claddings, bumper covers, body panels, step pads, and air deflectors. It is also used as a component in compounded materials for a wide range of industrial applications.

The grade is available in natural pellet form.

For regulatory compliance information see Adflex KS311P Product Stewardship Bulletin (PSB).

General Information				
Features	Good Colorability			
	Good Flexibility			
	Good Moldability			
	Good Processability			
	Good Stiffness			
	Good Surface Finish			
	Low Temperature Impact Resistance			
	Paintable			
Uses	Automotive Bumper			
	Automotive Exterior Parts			
	Cast Film			
	Fascias			
	Industrial Applications			
	Stationary Supplies			
Appearance	Natural Color			
Forms	Pellets			
Processing Method	Blow Molding			
	Cast Film			
	Extrusion			
	Extrusion Blow Molding			
	Injection Molding			
Physical	Nominal Value	Unit	Test Method	
Density	0.890	g/cm³	ISO 1183/A	
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.5	g/10 min	ISO 1133	
Hardness	Nominal Value	Unit	Test Method	

Shore Hardness (Shore D, 15 sec)	46		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/50
Yield, 23°C	14.0	MPa	
Break, 23°C	19.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 23°C	14	%	
Break, 23°C	> 800	%	
Flexural Modulus - Chord ¹ (23°C)	530	MPa	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ²	103	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-40°C, Partial Break	4.0	kJ/m²	
23°C, Partial Break	49	kJ/m²	
Instrumented Dart Impact			ASTM D3763
-40°C, 3.20 mm, Energy at Peak Load, Ductile Failure ³	26.0	J	
23°C, 3.20 mm, Energy at Peak Load, Ductile Failure ⁴	14.0	J	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	55.0	°C	ISO 75-2/B
Vicat Softening Temperature	112	°C	ISO 306/A50
Melting Temperature	147	°C	ISO 11357-3
NOTE			
1.	2.0 mm/min		
2.	Die C, 50 mm/min		
3.	6.60 m/sec		
4.	2.20 m/sec		

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