Polybutene-1 KT AR 05

LyondellBasell Industries - Polybutylene

Monday, November 4, 2019

General Information

Product Description

Koattro KT AR05 is a novel plastomeric material based on LyondellBasell technology with unique characteristics.

The product shows an excellent compression set performance which is highly compatible with Polypropylene.

Blended with PP it enhances softness, elastic recovery, elongation at break and impact resistance whilst improving transparency and reducing stress whitening. Blended at low concentrations in PP, Koattro KT AR05 enhances also the thermal bonding strength.

Koattro KT AR05 is available in free flowing pellet form.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Foamable • Good Melt Strength • Good Processing Stability	• High Elasticity • Low Temperature Flexibility • Medium Flow	• Weldable
Uses	• Appliances • Automotive Applications	• Coating Applications • Consumer Applications	• Film • Sealants
Forms	• Pellets		
Processing Method	• Blown Film • Calendering	• Cast Film • Compression Molding	• Injection Molding

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.890	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.50	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [2] (73°F)	2760	psi	ISO 527-2
Tensile Stress [2] (Break)	1740	psi	ISO 527-2
Tensile Strain [2] (Break)	> 400	%	ISO 527-2
Flexural Modulus [2] (73°F)	3630	psi	ISO 178
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Compression Set [3] (158°F)	42	%	ASTM D395
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-4°F	2.4	ft·lb/in²	
32°F	No Break		
73°F	No Break		
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A)	87		ISO 868
Thermal	**Nominal Value**	**Unit**	**Test Method**
Melting Temperature [4]	237	°F	ISO 11357-3

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Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Mechanical properties are measured on specimens conditioned for 10 days at 23°C

[3] 25% deformation

[4] Tm1