

TECHNICAL DATA SHEET

ADENE-R18N1A1CNBJ0

Red Transparent Effect

High Performance Recycled PP Compound

Quality assured by AD Compound Material Managing Procedure



PHYSICAL	METHOD	UNITS	RANGE VALUE
MFI (A) 230°C/2,16 Kg	ISO 1133	g/10min	40,0 ÷ 50,0
DENSITY 23°C	ISO 1183	g/cm3	0,900 ÷ 0,918
XRF (RoHS DIRECTIVE)	IDO 10 LAB		CONFORM
MECHANICAL	METHOD	UNITS	RANGE VALUE
TENSILE MODULUS (+23°C 2mm/min)	ISO 527	MPa	850 ÷ 1200
IMPACT	METHOD	UNITS	RANGE VALUE
CHARPY IMPACT STRENGTH, NOTCHED (+23°C)	ISO 179-1/1eA	kJ/ m²	4,00 ÷ 6,00
OTHER	METHOD	UNITS	RANGE VALUE
HAZE (1 MM)	ASTM D1003	%	< 25,00
L* (COLOR TRANSMITTANCE) (D65)	CIELAB D65		46,50
a* (COLOR TRANSMITTANCE) (D65)	CIELAB D65		53,02
b* (COLOR TRANSMITTANCE) (D65)	CIELAB D65		5,40
RECYCLE PLASTIC CONTENT	INTERNAL	%	>=50
CARBON FOOTPRINT REDUCTION²	INTERNAL	Kg CO₂ eq/kg	- 44%

RECOMMENDED PROCESSING CONDITIONS

DRYING TEMPERATURE (°C)	90
DRYING TIME (h)	2
MELT TEMPERATURE (°C)	220 - 240
INJECTION SPEED	Medium
INJECTION PRESSURE	Medium
SHOT WEIGHT\BARREL CAPACITY (%)¹	25-50

¹ Recommendation suggested before processing.

² Reduction of carbon footprint, based on raw materials formulation only, compared to a vergin matrix PP Compound 12% mineral filled. The calculation has been carried out internally based on data available on literature and considering at least 70% of PIR PP matrix.

- Using less than 25% of the barrel capacity will extend the amount of time in which material sits in the barrel and it could cause the degradation of material.

- Using more than 50% of the barrel capacity may not give material pellets the proper amount of time to melt and cause the material to have a non-uniform plasticization with the potential surface defects on the product.

Residence time on the same **barrels shot capacity** also depends on the cycle time which has to be correlated to the product and mould.

For the contact details of the A.D. COMPOUND S.p.a company selling this product in your country, please visit www.adcompound.com

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