

PP - R

Material Information



PP - R

Product full identity:

Polypropylene - Regenerated (Sustainable)

PP-R is a material consisting of reprocessed polypropylene. This product offers similar properties to virgin grades but without any warranty. This material is weldable, for noncritical applications.

Properties

- Low cost
- Wide temperature range (+80 to -20°C)
- High chemical resistance
- Lightweight
- Good UV resistance.

Applications

- Signage
- Automotive Linings
- Impact Strips

Forms



Sheet

Technical Properties

Physical	Unit	Test Method	Result
Specific gravity	g/cm ³	ASTM 1183	0.91
Water absorption until saturation at 23°C	%	-	-
Maximum service temp. Upper temp limit – short term	°C	-	80
Maximum service temp. Upper temp limit – long term	°C	-	-
Lower temp limit	°C	-	-20
Mechanical	Unit	Test Method	Result
Tensile strength	MPa	DIN EN ISO 527	22
Elongation at yield	%	DIN EN ISO 527	12
Tensile strength at break	MPa	-	-
Unnotched impact strength	kJ/m ²	DIN EN ISO 179	No break
Notch impact strength	kJ/m ²	DIN EN ISO 179 - 1eA	25
Ball indentation / Rockwell hardness	MPa	DIN EN ISO 2039-1	40
Shore-D		ASTM 868	62
Flexural modulus of elasticity	MPa	-	-
Tensile modulus of elasticity	MPa	DIN EN ISO 527	850
Thermal	Unit	Test Method	Result
Vicat-softening point VST/B/50	°C	-	-
Heat deflection temperature HDT/B	°C	-	-
Coefficient of linear thermal expansion 23 – 100°C	m/(m.K)	ISO 11359-2	1.6 x 10 ⁻⁴
Thermal conductivity at 23°C	W/mK	-	-
Electrical	Unit	Test Method	Result
Volume resistivity	Ω x m	-	-
Surface resistivity	Ω	DIN EN 61340	≥10 ¹³
Insulation resistivity	Ω . cm	-	-
Dielectric constant at 1MHz		-	-
Dielectric loss factor at 1MHz		-	-
Dielectric strength	kV/mm	-	-
Comparative tracking index (CTI)		-	-
Additional Data	Unit	Test Method	Result
Bondability		-	-
Food compliance – FDA		FDA	Yes
Food compliance – EU		-	-
Antistatic		-	-
Flammability	Unit	Test Method	Result
Fire performance		DIN 4102	B2
Optical	Unit	Test Method	Result
N/A	N/A	N/A	N/A

All information provided in this Product Datasheet is for guide purposes only. The data has been taken from standard test results provided by our manufacturers.