

POLIMAXX S1003

IRPC Public Company Limited - *Polypropylene Homopolymer*

General Information

Product Description

S1003 is a Homo-Polypropylene (Homo-PP). with low melt flow index for extrusion process. It is suitable for general purpose for monofilament, tape or flat yarn such as rope, twine, tape (Raffia), carpet backing, civil engineering fabric, etc.

Typical applications:

Extrusion : Monofilament, tape or flat yarn.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• General Purpose	• Homopolymer	• Low Flow
Uses	• Carpet Backing	• Rope	• Yarn
	• General Purpose	• Tape	
	• Monofilaments	• Twine	
Processing Method	• Extrusion		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.902		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.5 g/10 min		ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	5220	psi	ASTM D638
Flexural Modulus - 1% Secant	225000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	0.84	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	212	°F	ASTM D648

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	374 to 464	°F

Notes

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

