PRODUCT INFORMATION

NILFLEX S A66 MC001

SBS elastomer is the main constituent of these TPE-S (Thermoplastic Elastomer Styrenic) compounds. These compounds show sufficient UV and ozone resistance that could be improved adding specific additives. Besides they show good mechanical characteristics and ease colourabilty.

ISO short	ISO 18064: TPS-SBS
Form	Pellets

Key Features

- Designed for injection moulding applications
- High flow
- Mineral filled
- Medium density

Availability

- U: UV stabilized
- All colours

Process

- INJECTION MOULDING

Application

- General purpose applications
- Handles
- Wheels
- Seals and gaskets

Property	Method	Unit	Value	Condition	State
PHYSICAL					
Density (+23°C)	ISO 1183	g/cm^3	1,04		
Melt Flow Rate (MFR)	ISO 1133	g/10 min	70	190°C - 5 kg	
MECHANICAL					
Hardness SHORE A	ASTM D2240	Shore A	65	3 sec	
Tensile Break Strength	ASTM D412/C	MPa	4,0		
Elongation at Break	ASTM D412/C	%	450		

INJECTION MOULDING	Value
Drying Temperature (Desiccant Dryer)	80°C
Drying Time (Desiccant Dryer)	2 hours

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Suggested Max Moisture	0,08%
Suggested Max Regrind	20%
Melt Temperature	160 - 230°C
Rear Temperature	160°C
Middle Temperature	170°C
Front Temperature	180°C
Nozzle Temperature	190°C
Mould Temperature	20 - 50°C
Injection Rate	Medium to Fast (50 - 150 mm/sec)
Back Pressure	0,3 - 0,7 Mpa
Screw Revolving Speed	Medium
Cushion	3 - 6 mm
Screw L/D Ratio	15:1 - 20:1
Screw Compression Ratio	2,5 - 3
Vent Depth	0,025 mm

Notes All NILFLEX S compounds must be stored indoors at a temperature below 40°C avoiding humidity and direct sunlight as well. Despite a longer shelf storage life without loss of properties, we recommend to use the material within 6 months from the production date.