

# TECHNICAL DATASHEET

## POLYPROPYLENE TATREN IM 12 59

Impact copolymer for injection moulding

### DESCRIPTION

TATREN IM 12 59 is an impact copolymer of good processing stability and medium fluidity. This grade contains nucleating agent.

TATREN IM 12 59 is characterised by high stiffness which is well balanced by good impact resistance.

### APPLICATIONS

TATREN IM 12 59 is intended especially for injection moulding of products where good impact resistance as well as high stiffness is required – transport and storage containers, water tanks, household and garden articles, toys, rigid packaging, and other general purpose and technical items. This grade can be used for compounding as well.

### PRODUCT COMPLIANCE

See DDS.

### PROPERTIES\*

Parameter	Note	Test method	Unit	Typical value
MFR - Melt Mass-Flow Rate (230°C, 2.16 kg)	-	ISO 1133-1	g/10 min	12
Tensile Stress at Yield	2	ISO 527-1,2	MPa	24.5
Tensile Strain at Yield	2	ISO 527-1,2	%	5
Modulus of Elasticity in Tension	2	ISO 527-1,2	MPa	1500
Flexural Modulus	2	ISO 178	MPa	1500
Izod Impact Strength (notched, 23°C)	2	ISO 180/A	kJ/m <sup>2</sup>	10.5
Izod Impact Strength (notched, -20°C)	2	ISO 180/A	kJ/m <sup>2</sup>	5.5
Hardness - Rockwell	2	ISO 2039-2	R scale	78
HDT (0.45 MPa, flatwise)	2	ISO 75-1,2	°C	92
Recommended Processing Temperature	-	-	°C	190 - 250

\*Typical properties, not to be used as specification.

(2) Typical properties measured on standard injection moulded test specimen according to ISO 294-1.

### PROCESSING

TATREN IM 12 59 can be processed on standard injection moulding machines.

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### **STORAGE AND HANDLING**

Pellets are packed in 25 kg polyethylene bags and transported on shrink-wrapped or stretch-wrapped pallets at eligible load of polymer 1375 kg. Heat treated pallets are provided by PRS, a member of the Faber Halbertma Group, operating a pooling system which collects the pallets after use, and organizes reuse as part of a sustainable, circular system. PRS pallets remain property of PRS at all times. Transportation in road silo or rail silo is also available. For more detailed information please contact a sales representative at SLOVNAFT or at MOL Petrochemicals.

Since polypropylene is a combustible substance, the fire safety rules applicable for combustible materials in warehouses and store rooms should be observed.

If polymer is stored in conditions of high humidity and fluctuating temperatures, then atmospheric moisture can condense inside the packing. If it happened, it is recommended the pellets to be dried before use. During the storage polypropylene should not be exposed to UV radiation and temperatures above 40°C. Producer does not take responsibility for any damages caused by adverse storage.

### **REACH STATEMENT**

Polymers are exempt of REACH registration. However, their raw materials which mean monomers and relevant additives have been registered. SLOVNAFT, a.s. is committed to fully respect legislation and will only use REACH compliant raw materials. At this point in time PP TATREN does not contain any substances specifically identified as SVHC at levels greater than 0.1%.

### **RECYCLING**

Polypropylene resins are suitable for recycling using modern recycling methods. In-house production waste should be kept clean to facilitate direct recycling.

### **SAFETY**

See MSDS.

Flammability measurement according to FMVSS302 (1998): burning rate 37.6 mm/min, horizontal position, measured on press moulded specimens, size (356 x 74 x 2.2-2.4) mm.

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### MANUFACTURER

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