

# TECHNICAL DATASHEET

## POLYPROPYLENE TIPPLEN R 351 F

Random copolymer for extrusion applications

### DESCRIPTION

TIPPLEN R 351 F is a random copolymer polypropylene. The product shows high transparency and gloss and very good heat weldability. The seal initiation temperature is about 136 °C. This grade contains a slip and antiblock package.

### APPLICATIONS

TIPPLEN R 351 F is recommended for extrusion of cast and water-quenched blown films. It is well suited for the packaging of foodstuff such as biscuits, sweets, pasta, tea and for the packaging of stationary, shirt etc.

TIPPLEN R 351 F is also recommended for quality packaging either as monolayer film or as welding layer in coextruded structures. Because of the excellent heat weldability, this grade is well suited for lamination of PP film or other materials such as PA, polyester or aluminium to form the sealing layer.

TIPPLEN R 351 F is not intended for use in medical & pharmaceutical applications.

### 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	8.5
Tensile Stress at Yield	2	ISO 527-1,2	MPa	25
Tensile Strain at Yield	2	ISO 527-1,2	%	12
Modulus of Elasticity in Tension	2	ISO 527-1,2	MPa	900
Flexural Modulus	2	ISO 178	MPa	900
Izod Impact Strength (notched, 23°C)	2	ISO 180/A	kJ/m <sup>2</sup>	5
Hardness - Rockwell	2	ISO 2039-2	R scale	77
HDT (0.45 MPa, flatwise)	2	ISO 75-1,2	°C	83
Recommended Processing Temperature	-	-	°C	185 - 230

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

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

### PROCESSING

TIPPLEN R 351 F can be used in conventional extrusion 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. We use adhesive between the bags in order to avoid their slipping. Pay attention to this fact during the removing of the bags from the pallets. The preferred method is to lift the bag at first without rotation. 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. MOL Petrochemicals is committed to fully respect legislation and will only use REACH compliant raw materials. At this point in time PP TIPPLEN 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.

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### MANUFACTURER

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### TECHNICAL SUPPORT

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