

TECHNICAL DATASHEET

POLYPROPYLENE TIPPLEN K 693

Impact copolymer for extrusion applications

DESCRIPTION

TIPPLEN K 693 is a high molecular weight impact copolymer polypropylene for the extrusion and injection moulding applications.

APPLICATIONS

TIPPLEN K 693 is recommended for medium-low weight corrugated cardboards, blow moulded bottles. This grade is also recommended for heavy-duty packaging and large containers.

TIPPLEN K 693 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	2
Tensile Stress at Yield	2	ISO 527-1,2	MPa	26
Tensile Strain at Yield	2	ISO 527-1,2	%	7
Modulus of Elasticity in Tension	2	ISO 527-1,2	MPa	1380
Flexural Modulus	2	ISO 178	MPa	1500
Izod Impact Strength (notched, 23°C)	2	ISO 180/A	kJ/m ²	20
Izod Impact Strength (notched, -20°C)	2	ISO 180/A	kJ/m ²	6.5
Hardness - Rockwell	2	ISO 2039-2	R scale	79
HDT (0.45 MPa, flatwise)	2	ISO 75-1,2	°C	115
Recommended Processing Temperature	-	-	°C	190 - 240

*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 K 693 can be used in conventional extrusion and 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. 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.

Flammability measurement according to FMVSS302 (1998): burning rate 32 mm/min, horizontal position, measured on press moulded specimens (size 350 x 100 x 2 mm).

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