

TECHNICAL DATASHEET

POLYPROPYLENE TATREN RM 45 44

Random copolymer for injection moulding

DESCRIPTION

TATREN RM 45 44 is a reactor random copolymer of excellent processing stability and high fluidity. It contains very effective clarifying agent and antistatic agent.

TATREN RM 45 44 is characterised by excellent transparency and high gloss. Because it is a reactor grade it has excellent organoleptic properties which make it suitable for demanding food contact applications.

APPLICATIONS

TATREN RM 45 44 is intended for thin wall injection moulding of products where high clarity and low haze is required - media boxes, food packages, cups, closures, household articles etc.

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	45
Tensile Stress at Yield	2	ISO 527-1,2	MPa	29
Tensile Strain at Yield	2	ISO 527-1,2	%	11
Modulus of Elasticity in Tension	2	ISO 527-1,2	MPa	1200
Flexural Modulus	2	ISO 178	MPa	1200
Izod Impact Strength (notched, 23°C)	2	ISO 180/A	kJ/m ²	4.5
Haze	18	ISO 14782	%	7
Hardness - Rockwell	2	ISO 2039-2	R scale	89
Recommended Processing Temperature	-	-	°C	220 - 240

*Typical properties, not to be used as specification.

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

(18) Value has been measured on specimens with 1 mm wall thickness. Injection moulding conditions: melt temperature 230°C, cooling water 30°C, overall cycle time 15s.

PROCESSING

TATREN RM 45 44 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.

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DISCLAIMER

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