

# TIPPLEN® R 659

Polypropylene Random Copolymer

TVK Plc. (Tiszai Vegyi Kombinát)

## Message:

TIPPLEN R 659 is a random copolymer polypropylene for extrusion. This grade is formulated with a new generation nucleating agent, so the product shows excellent optical properties (transparency and gloss).  
TIPPLEN R 659 is recommended for blow moulded bottles for detergents, toiletries and flat mineral water, where the higher gas-permeability than PVC and PET is no problem. This grade is well suited for extruded sheet for stationery folder and thermoforming articles.  
TIPPLEN R 659 is suitable for food contact. The product complies with Food Contact Regulations

General Information	
Additive	Nucleating Agent
Features	Detergent Resistant
	Food Contact Acceptable
	High Clarity
	High Gloss
	Nucleated
	Opticals
	Random Copolymer
Uses	Recyclable Material
	Blow Molding Applications
	Bottles
	Sheet
Appearance	Stationary Supplies
	Clear/Transparent
Forms	Pellets
Processing Method	Blow Molding
	Extrusion
	Sheet Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	78		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	1050	MPa	ISO 527-2
Tensile Stress (Yield, Injection Molded)	29.0	MPa	ISO 527-2
Tensile Strain (Yield, Injection Molded)	12	%	ISO 527-2

Flexural Modulus (Injection Molded)	1150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C, Injection Molded)	24	kJ/m <sup>2</sup>	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	78.0	°C	ISO 75-2/B
Extrusion	Nominal Value	Unit	
Melt Temperature	185 to 230	°C	

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#### Recommended distributors for this material

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