

# TIPPLEN® R 780

Polypropylene Random Copolymer

MOL Petrochemicals Co. Ltd.

## Message:

TIPPLEN 7111S is a high density bimodal polyethylene copolymer (with butene-1 as comonomer) intended for sheet extrusion and blow moulding of products with high stiffness, excellent environmental stress crack resistance, full notched creep behavior and improved long-term color stability. The grade contains antioxidants and acid scavengers.

TIPPLEN 7111S is recommended for the extrusion of sheets of industrial parts and consumer packaging as well, highly recommended in cases when better colour stability and lower yellowness value of the product is needed.

TIPPLEN 7111S is also recommended for non-pressure pipe extrusion and for blow moulding of jerry cans for the packaging even of aggressive industrial chemicals.

TIPPLEN 7111S is suitable for food contact, for manufacturing of toys. The product complies with Food Contact and Toy Safety Regulations.

General Information			
Features	Food Contact Acceptable		
	Good Creep Resistance		
	High Heat Resistance		
	Random Copolymer		
	Recyclable Material		
	Ultra High Molecular Weight		
Uses	Automotive Applications		
	Containers		
	Fittings		
	Foam		
	Piping		
	Profiles		
	Sheet		
	Tubing		
Agency Ratings	EC 1907/2006 (REACH)		
Processing Method	Extrusion		
	Extrusion Blow Molding		
	Pipe Extrusion		
	Profile Extrusion		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.50	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	75		ISO 2039-2

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	1000	MPa	ISO 527-2
Tensile Stress (Yield, Injection Molded)	30.0	MPa	ISO 527-2
Tensile Strain (Yield, Injection Molded)	12	%	ISO 527-2
Flexural Modulus (Injection Molded)	1050	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C, Injection Molded)	22	kJ/m <sup>2</sup>	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	82.0	°C	ISO 75-2/B
Extrusion	Nominal Value	Unit	
Melt Temperature	185 to 230	°C	

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

